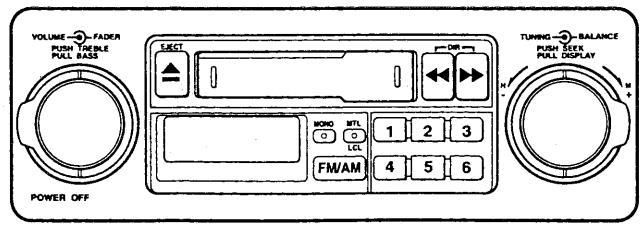
XR-6077

SERVICE MANUAL

US Model
Canadian Model
Panama Model



Model Name Using Similar Mechanism	ES-R400, XR-4040
Tape Transport Mechanism Type	MG-36-SHJ-32 (US, Panama Model) MG-36-SVJ-32 (Canadian Model)

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

4 watts per channel minimum continuous average power into 4 ohms, both channels driven, from 150 to 20,000 Hz with no more than 1.5% total harmonic distortion.

Other Specifications

Tuner section

FM

Tuning range	87.9 – 107.9 MHz
Antenna terminal	External antenna connector/Power antenna relay control lead
Usable sensitivity	13 dBf (75 ohms)
Selectivity	more than 70 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (monaural)
Harmonic distortion at 1 kHz	0.9% (stereo), 0.5% (monaural)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz (±3 dB)
Capture ratio	2.0 dB

AM

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector/Power antenna relay control lead
Sensitivity	32 µV

Cassette player section

Tape track	4-track 2-channel stereo
Frequency response	40 – 15,000 Hz
Signal-to-noise ratio	55 dB with TYPE I cassettes 58 dB with TYPE II, IV cassettes
Wow and flutter	0.13%

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	7.5 W + 7.5 W (at 4 ohms)* *Measured at 14.4 V

General

Tone controls	Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Mounting dimensions	178 × 50 × 134 mm (w/h/d) ($7^1/_8$ × 2 × $5^3/_8$ inches)
Weight	1.3 kg (2 lb 14 oz)
Accessories supplied	Mounting hardware (1 set)
Output lead	Power antenna relay control lead

Disign and specifications subject to change without notice.

使用時は添付資料も参照のこと
Refer to the additional documents

FM/AM CASSETTE CAR STEREO

SONY®

Features

Tuner section
- SSIR (Sony Super Interference Rejection) PLL Synthesizer tuner.
- The quartz-locked digital synthesizer system enables easy and accurate tuning.
- Up to 12 FM and 6 AM stations can be preset.

Cassette deck section
The auto-reverse function changes the tape direction automatically.

Power amplifier section
- Fader control for playback with a 4-speaker system.
- Maximum power output of 7.5 watts per channel.

General
The quartz controlled digital clock.

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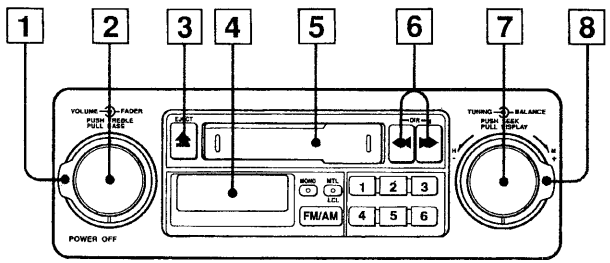
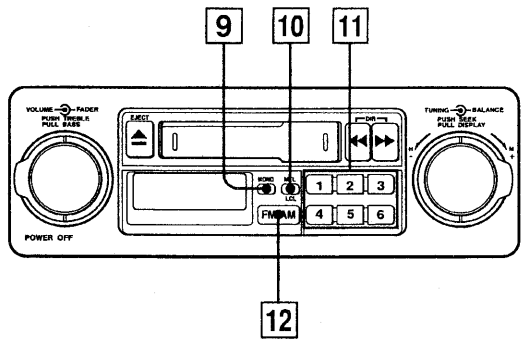
Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

LOCATION AND FUNCTION OF CONTROLS

Refer to the page in ● for details.





1 FADER control
Turn clockwise to decrease the volume of the rear speakers or counterclockwise to decrease the volume of the front speakers.

2 POWER OFF (power on/off) switch/VOLUME/PUSH TREBLE/PULL BASS control

POWER OFF (power on/off) switch	Turn clockwise to turn on the unit and counterclockwise to turn off the unit.
VOLUME control	Turn clockwise to increase volume and counterclockwise to decrease volume.
TREBLE control	Press and turn to adjust treble.
BASS control	Pull and turn to adjust bass.

3 EJECT button
Press to stop the tape and take out the cassette.

4 Display window

5 Cassette insertion door

6 ◀◀/▶▶ (fast winding)/DIR (tape transport direction change) buttons ❼
During playback, depress ◀◀ or ▶▶ for fast winding and press both ◀◀ and ▶▶ simultaneously to listen to the other side of the cassette.

7 TUNING/PUSH SEEK/PULL DISPLAY knob

TUNING knob	Turn to manually tune in the desired station.
SEEK knob	Press for automatic tuning.
DISPLAY knob	Pull to display the time indication during radio reception.

Use this knob also for clock setting. ⓬

8 BALANCE control
Turn to adjust the balance of the left and right speakers.

9 MONO (monaural) button ❽
Press to reduce noise during reception of a weak FM stereo program.
To restore to stereo, press it again.

10 MTL/LCL (metal/local) button ❽

Operation mode	How to use
Tape playback	Press when listening to CrO_2 (TYPE II) or metal (TYPE IV) tapes. When listening to normal (TYPE I) tapes, press it again.
Radio reception	Press to eliminate interference from adjacent stations during a reception of a station with comparatively strong broadcasting signals. To go back to the normal receiving sensitivity, press it again.

11 Preset number buttons

12 FM/AM (band select) button ❽
Press to select a desired band, FM1, FM2 or AM.

This section is extracted from instruction manual.

INSTALLATION

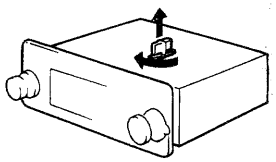
Precautions

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it should be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

Basic Installation

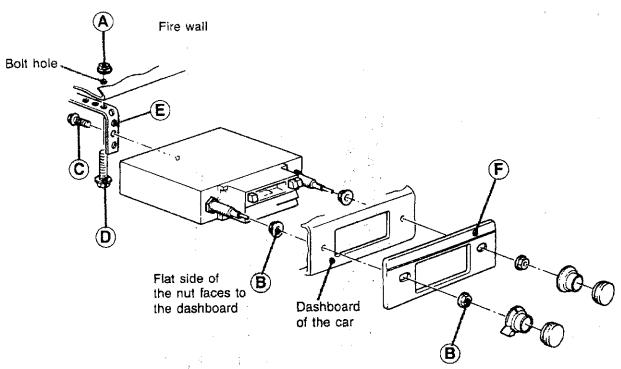
Use the mounting hardware supplied with the unit.

Remove the transit lock.



Turn 90° and then pull it out.

Mount the unit.



CONNECTIONS

Caution

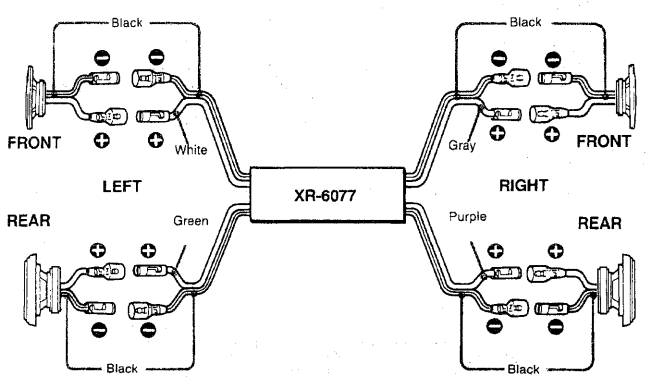
- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads are connected. Be sure to connect it to the positive 12 V power terminal which will be energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**

Speaker Connection

Notes on speaker connection

- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not attempt to connect the speakers in parallel.

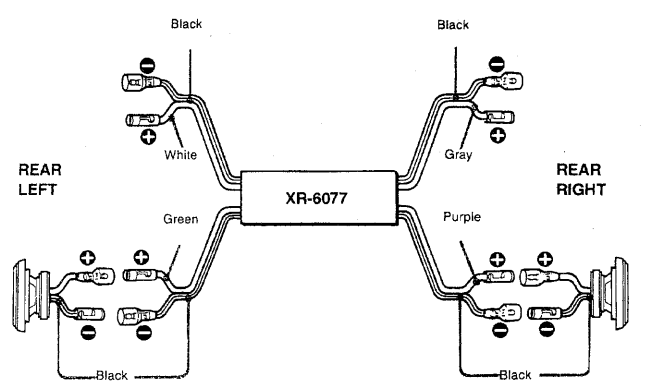
4-speaker connection



2-speaker connection

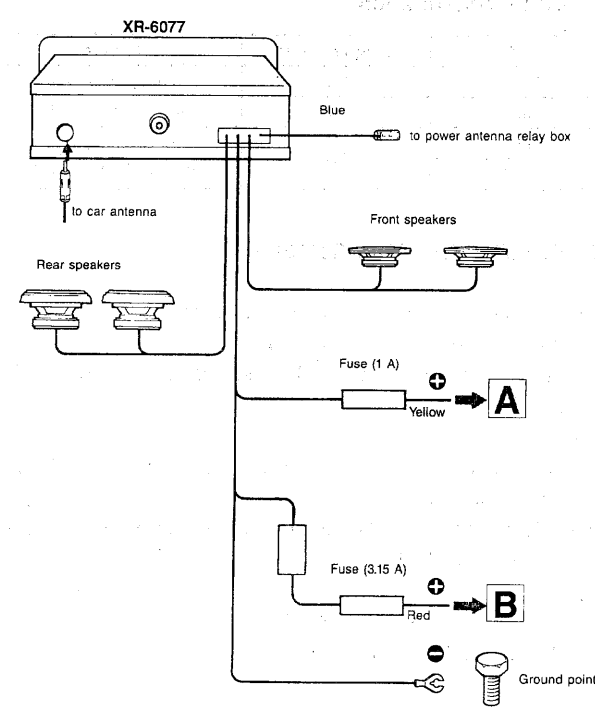
Use either pair of front (FRONT LEFT and FRONT RIGHT) or rear (REAR LEFT and REAR RIGHT) speaker cords, and leave the other pair free.

Example: Using the rear speaker cords



Connection Diagram

4- or 2-speaker connection



Destination

A To the +12 V terminal which is energized at all times.
B To the +12 V power terminal which is energized with the ignition key in the accessory position.

Cord color

Red	Power input lead
Yellow	Power input lead
Blue	Power antenna relay control lead
Black	Ground wire

SECTION 2
ADJUSTMENTS

2-1. MECHANICAL ADJUSTMENT

No mechanical adjustments applied to this unit.

● Torque Measurement

Mode	Torque Meter	Torque
FWD	CQ-102B	40 to 75 g • cm (0.56 to 1.05 oz • inch)
REV	CQ-102RB	
FF	CQ-201A	45 to 150 g • cm (0.62 to 2.08 oz • inch)
REW		

2-2. ELECTRICAL ADJUSTMENTS

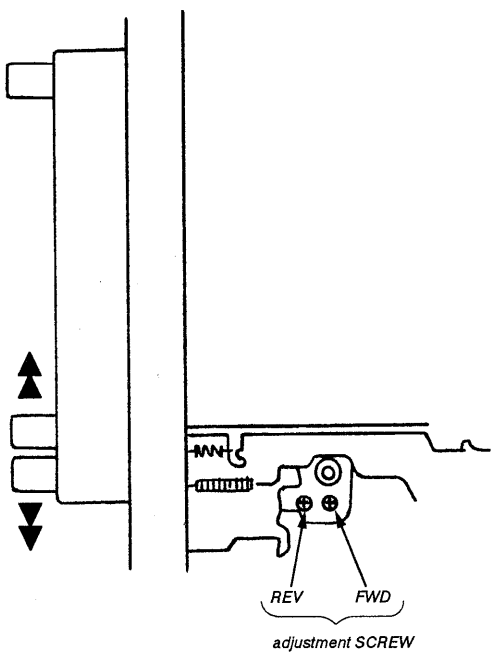
Note: The adjustment should be performed in the order given in this service manual.
The adjustments should be performed for both L-CH and R-CH.

- Power-supply voltage is + 14.4V DC as per Ad Hoc recommendation.
- Switches and controls should be set as follows unless otherwise specified.

PUSH RADIO switch : RADIO
PULL BALANCE control : center click

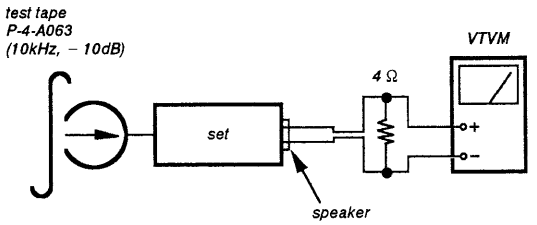
TAPE SECTION

Adjustment Location:



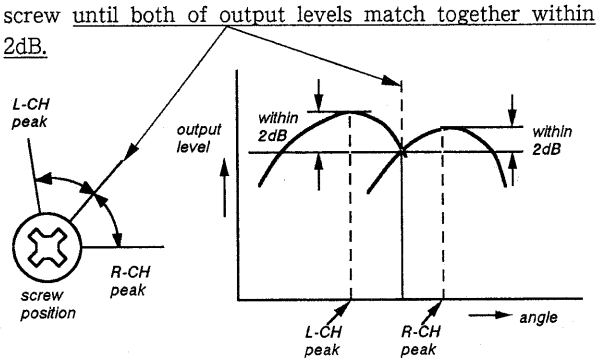
Playback Head Azimuth Adjustment

Procedure:

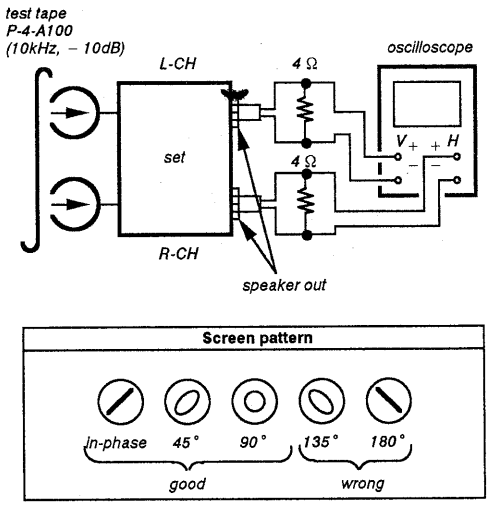


1.Mode : playback
Adjust for forward (▶) direction and reverse (◀) direction.

2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 2dB.



3. Phase Check
Confirm that phase difference between L-channel and R-channel is within 90°



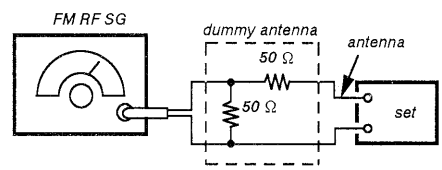
4. Repeat the above adjustment for reverse playback mode.
5. After the adjustment, lock the screw with locking compound.

FM SECTION

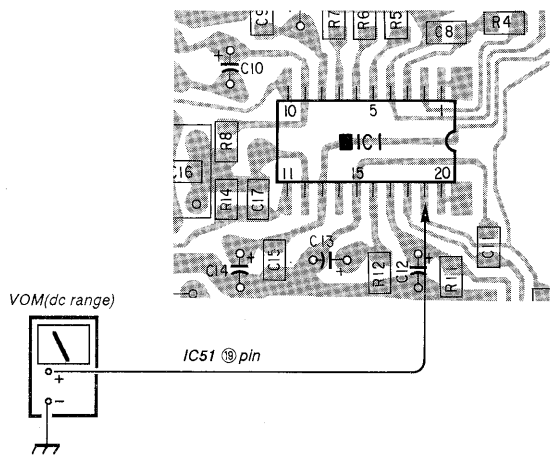
FM Auto-scan Stop Level Adjustment

Setup:

Band switch : FM MONO
Frequency : 98.1MHz



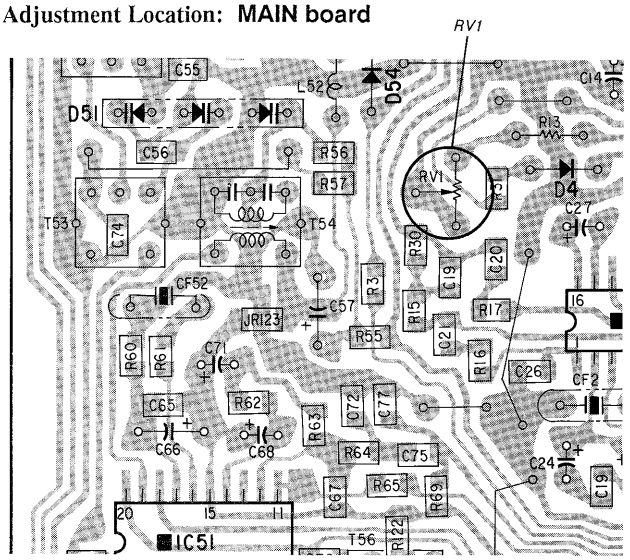
Carrier frequency: 98.1MHz
Modulation: 25dB(18 μ V)
Output level: no modulation



Procedure:

1. Adjust RV1 at the point where the VOM reading changes from low to high.
2. Confirm that the set stops auto-scanning with FM RF SSG output level set at 25 ± 2dB.

Adjustment Location: MAIN board



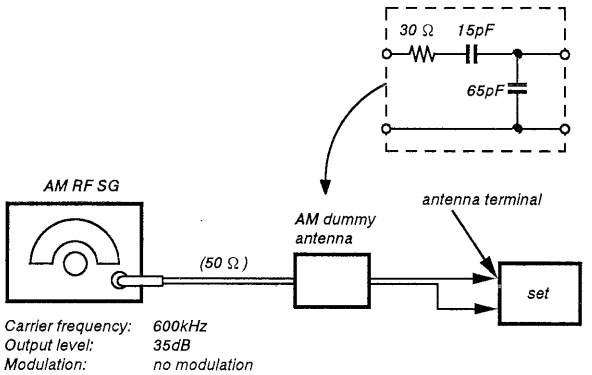
AM SECTION

AM Auto-scan Stop Level Adjustment

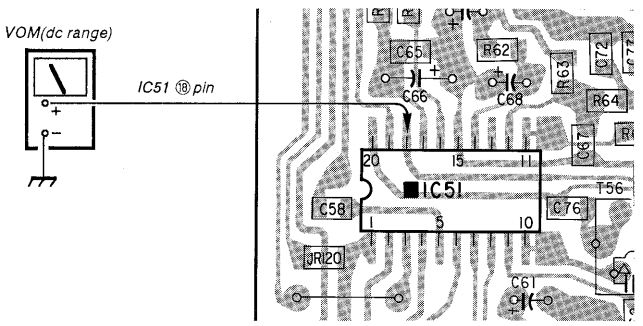
Note: Be sure to perform this adjustment after "FM Auto-scan Stop Adjustment".

Setup:

Band : AM
Frequency : 600kHz



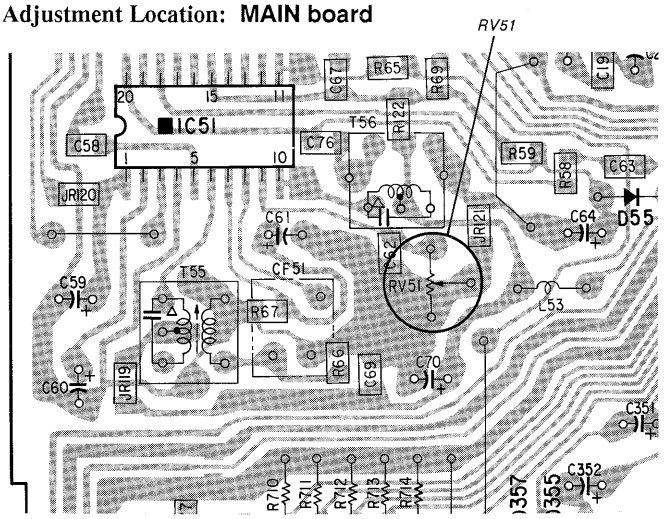
Carrier frequency: 600kHz
Output level: 35dB
Modulation: no modulation



Procedure:

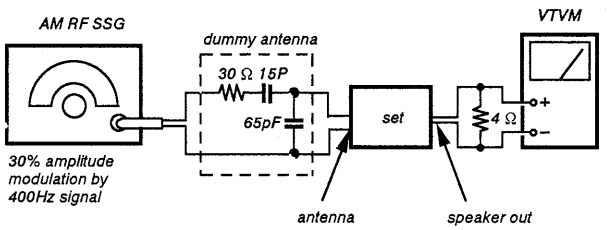
1. Adjust RV51 at the point where the VOM reading changes from low to high.
2. Confirm that the set stops auto-scanning with AM RF SG output level set at 35 ± 2dB.

Adjustment Location: MAIN board



AM IF, Tracking Adjustment

Setup:



AM IF ADJUSTMENT
Adjust for a maximum reading on VTVM.
T55, 56

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T52, 53	600kHz

FM SECTION

(The FM front-end is carefully adjusted at the factory and is supplied as one whole block for replacement.)

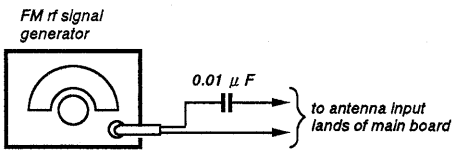
FM IF Adjustment

Setup:

Note : center-zero meter should be of high input impedance type.

Band : FM MONO

Frequency : 98.1MHz

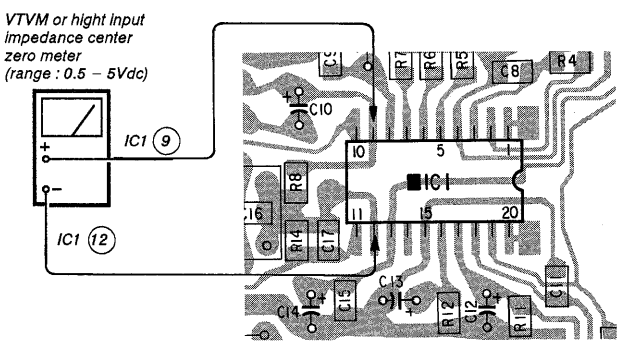


Carrier frequency : 98.1MHz
Modulation : 1kHz, 75kHz deviation (100%)
Output level : 1mV (60dB)
Mode : monaural

Procedure:

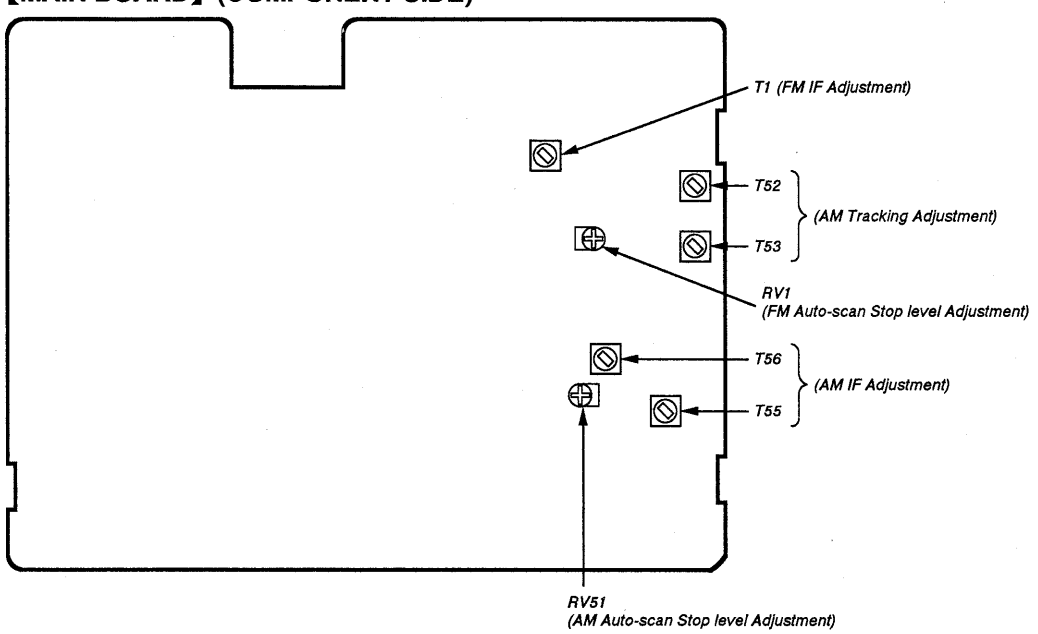
Slowly adjust the core of T1 to obtain a zero (0) V reading on VTVM or zero-center DC voltmeter.

Adjustment Location : Main board



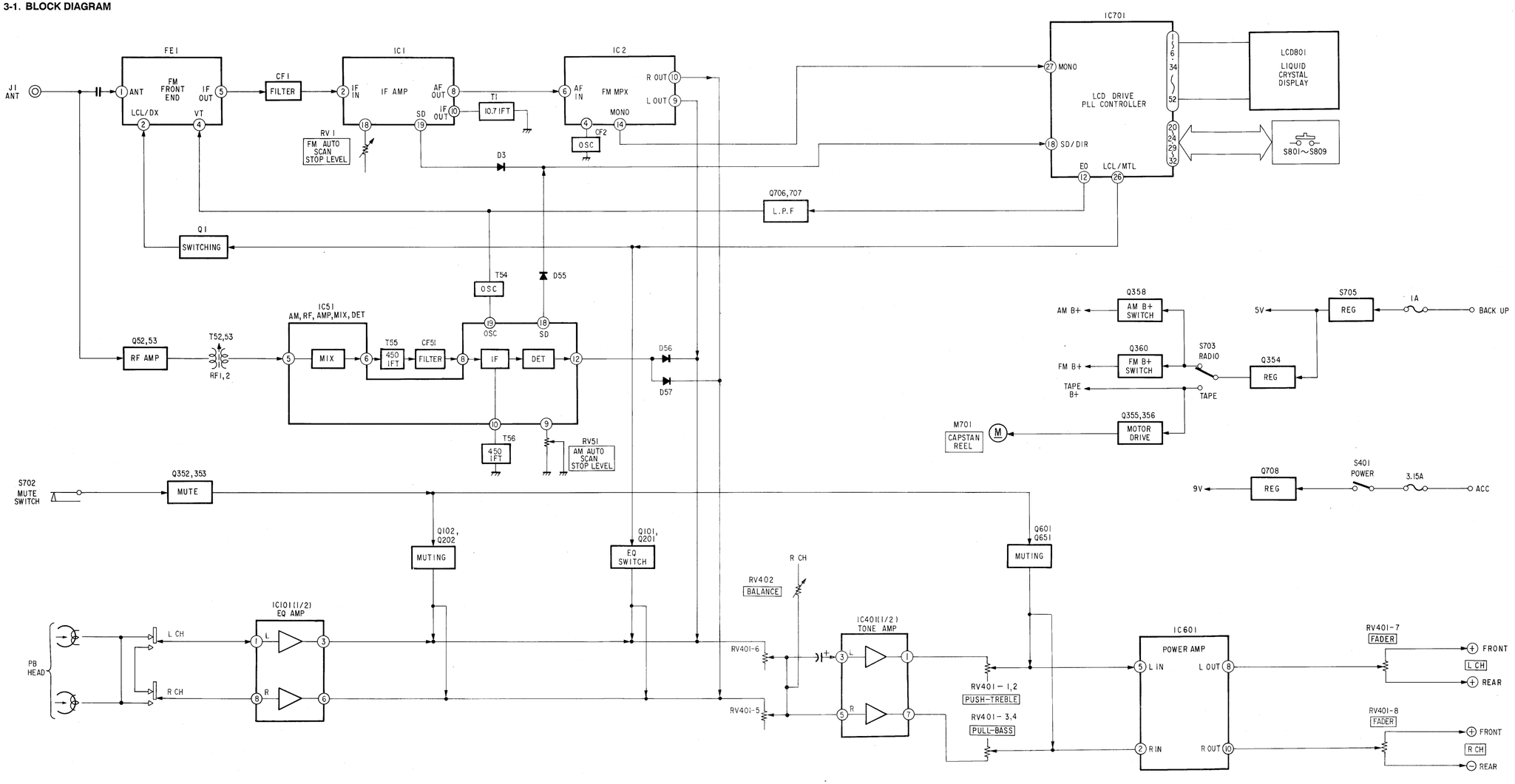
ADJUSTMENT LOCATION

【MAIN BOARD】 (COMPONENT SIDE)



SECTION 3
DIAGRAMS

3-1. BLOCK DIAGRAM



3-2. SEMICONDUCTORS LEAD LAYOUT

UN211F
UN2212
UN2215-QRS
2SA1162
2SC1623-L7

2SA1150

2SC2668
2SC536SP-G

2SC2673

2SD2012

2SK523-M1

LTZ-MR15
RD16ESB3
RD5.6ESB2
RD6.2ESB2
RD9.1ESB2
WG713
11ES2

KV1281-3-2

RD10ESB2

● SEMICONDUCTOR LOCATION

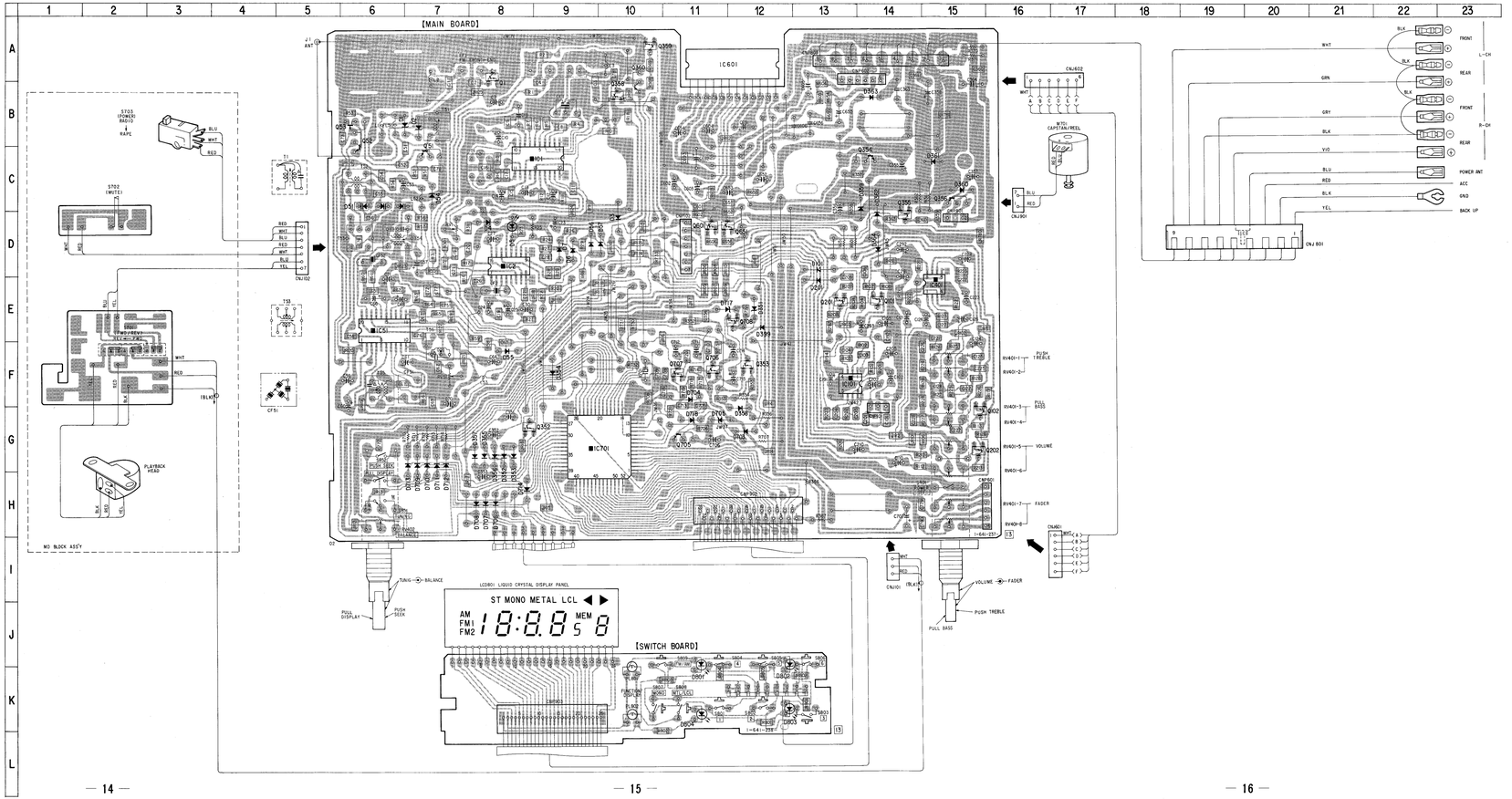
Ref. No.	Location	Ref. No.	Location
D1	B – 6	D801	J – 11
D2	B – 7	D802	J – 12
D3	D – 10	D803	K – 12
D4	D – 8	D804	K – 11
D5	D – 8		
D6	D – 9	IC1	C – 9
D7	D – 9	IC2	D – 8
D51	C – 6	IC51	E – 6
D54	C – 7	IC101	F – 13
D55	F – 8	IC401	E – 15
D56	D – 9	IC601	A – 12
D57	D – 10	IC701	G – 10
D101	D – 13		
D201	E – 13		
D351	E – 12	Q1	A – 8
		Q51	C – 7
D352	G – 8	Q52	B – 6
D353	G – 8	Q53	B – 6
D354	F – 9	Q101	E – 14
D355	G – 8		
D356	G – 8	Q102	G – 15
		Q201	E – 13
D357	G – 8	Q202	G – 15
D358	G – 12	Q352	G – 8
D359	C – 14	Q353	F – 12
D360	C – 15		
D361	C – 15	Q354	C – 14
		Q355	C – 14
D362	C – 14	Q356	C – 15
D363	B – 14	Q358	B – 10
D364	D – 14	Q359	A – 10
D399	E – 12		
D703	G – 12	Q360	A – 10
		Q601	D – 11
D704	F – 11	Q651	D – 11
D705	G – 11	Q705	G – 11
D706	H – 8	Q706	F – 11
D707	H – 8		
D708	H – 8	Q707	F – 11
		Q708	E – 12
D709	G – 7		
D710	G – 7		
D711	G – 7		
D712	G – 7		
D713	G – 7		
D714	H – 8		
D717	E – 11		
D718	G – 11		

Note:

- ○— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ▒ : Pattern on the side which is seen.

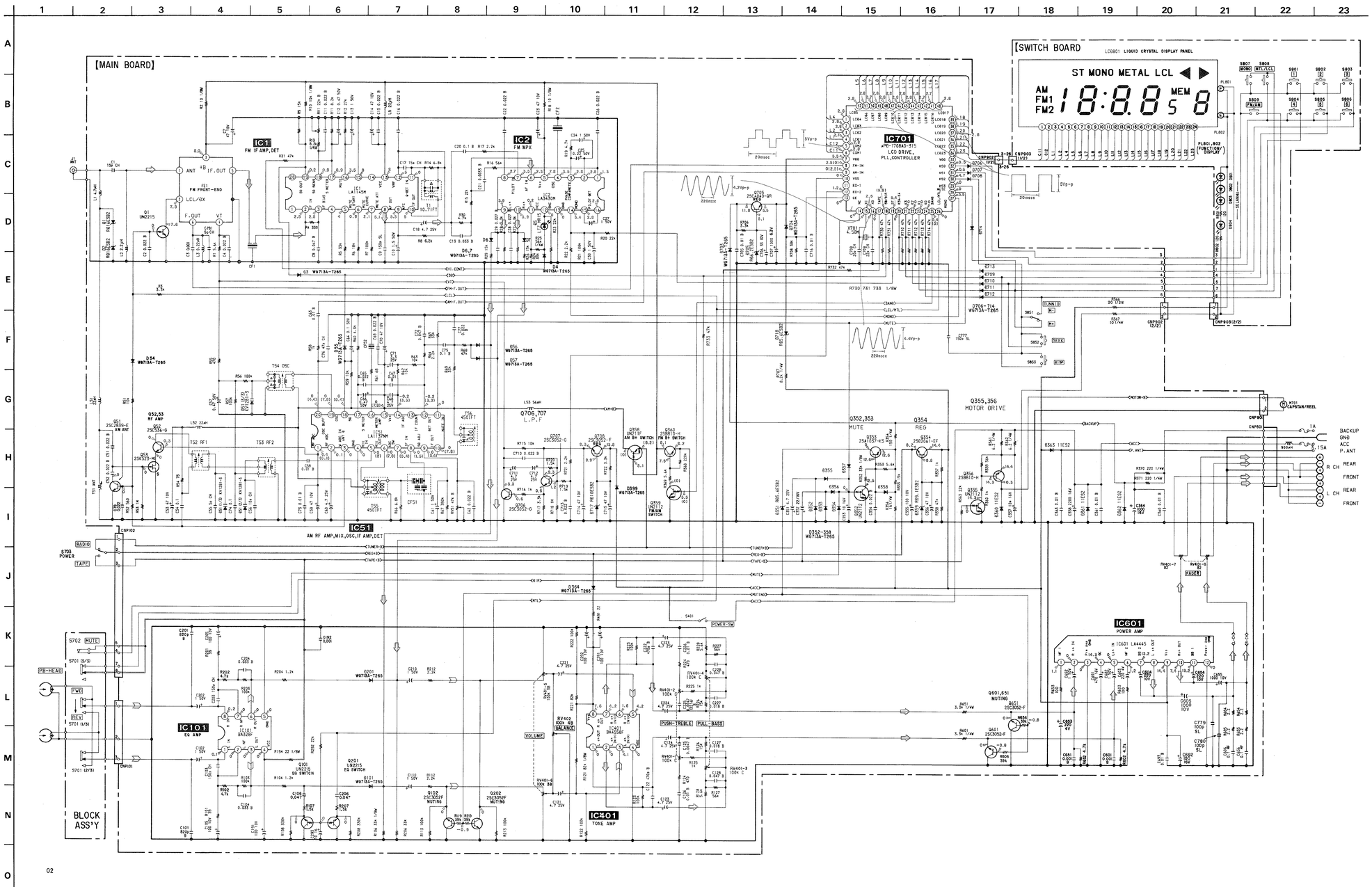
3-3. PRINTED WIRING BOARDS

SEE ADDITIONAL INFORMATION

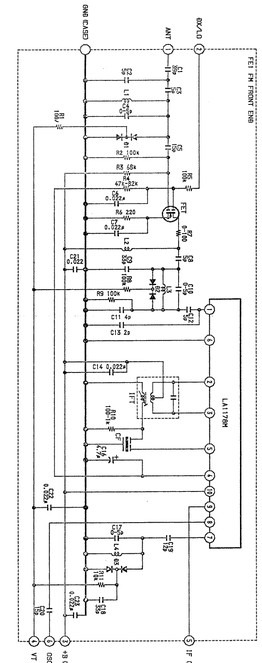


SEE ADDITIONAL INFORMATION

3-4. SCHEMATIC DIAGRAM



3-5. FE1 FM FRONT END SCHEMATIC DIAGRAM

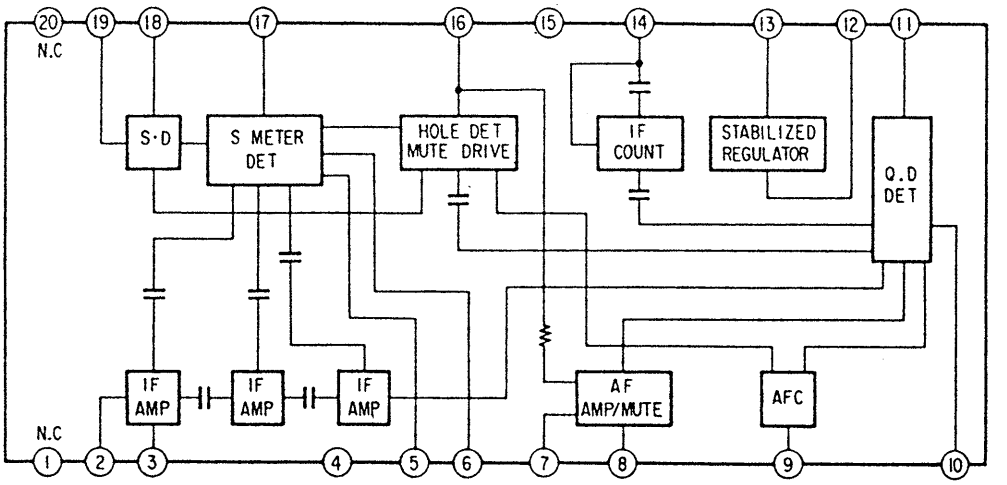


Note:

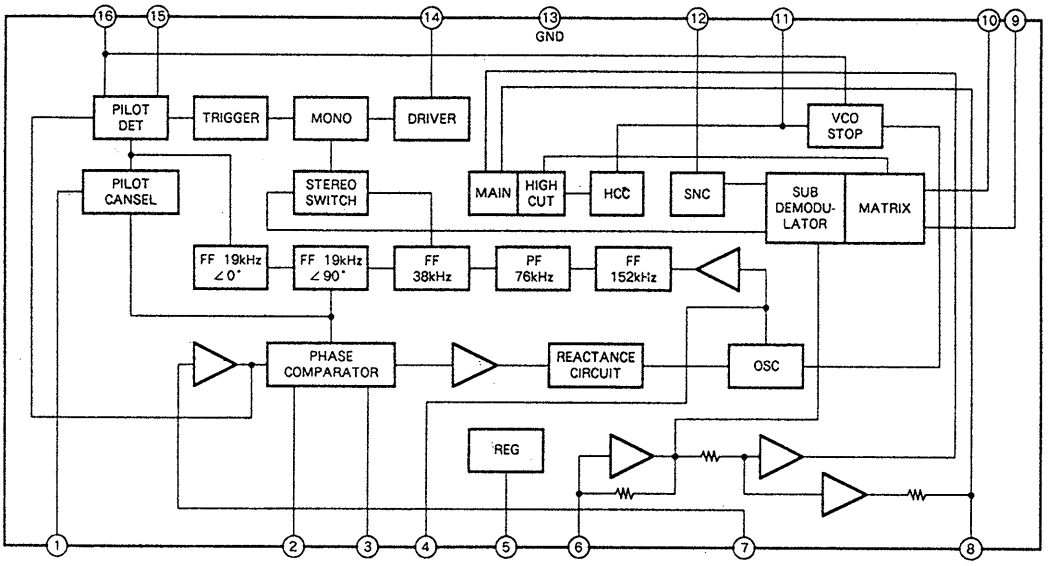
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ═══ : B÷ Line
- ┌──┐ : adjustment for repair.
- Total current is measured with no cassette installed.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
  ( ) : AM
- Voltages are taken with a VOM (input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM ⇨ : PB

3-6. IC BLOCK DIAGRAMS

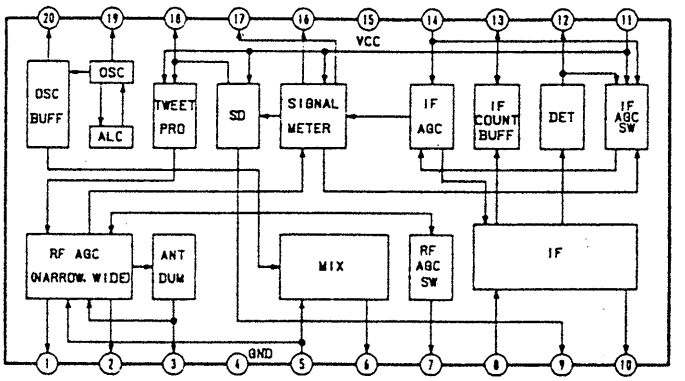
IC1 LA1145M



IC2 LA3430M



IC51 LA1137M

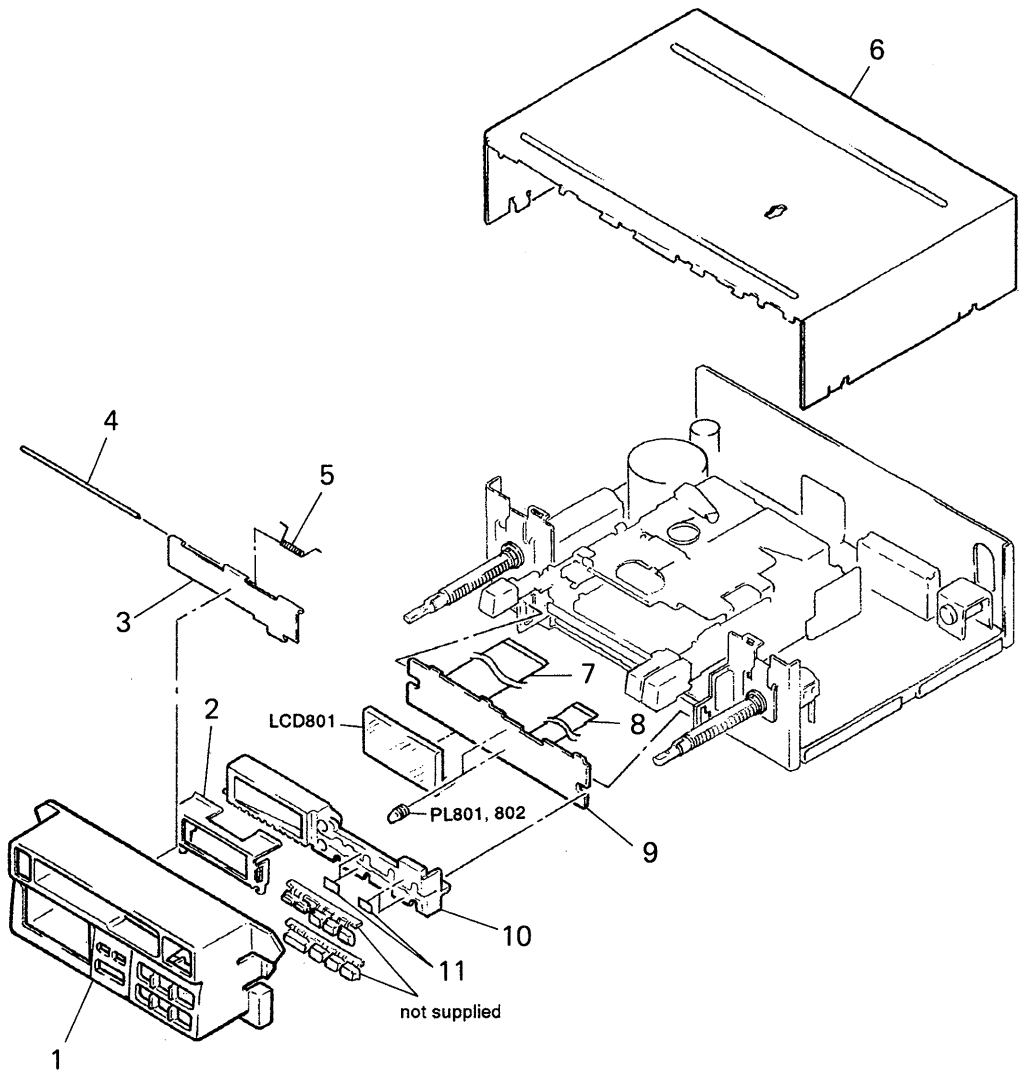


SECTION 4
EXPLODED VIEWS

NOTE:

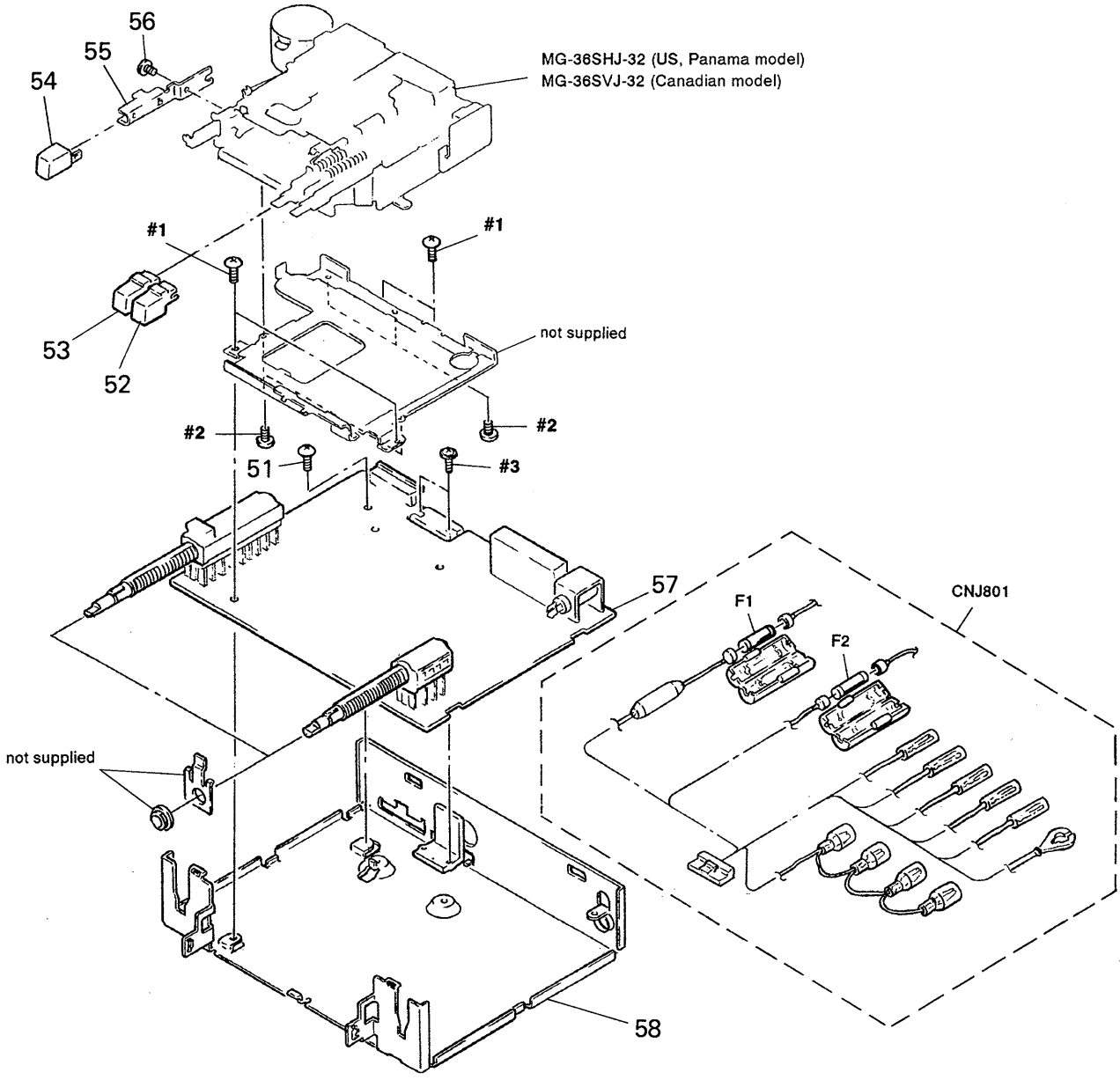
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE).... (RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

(1)



Ref. No.	Part No.	Description	Remark
1	X-3364-521-1	PANEL SUB ASSY, FRONT	
* 2	3-373-623-01	BRACKET (LCD)	
3	3-392-468-31	DOOR, CASSETTE	
4	3-332-130-01	SHAFT, C DOOR	
5	3-559-944-00	SPRING	
* 6	3-373-620-01	COVER	
7	1-690-687-11	WIRE, FLAT TYPE 26P	
8	1-535-667-41	WIRE (FLAT TYPE) (9 CORE)	
* 9	1-641-238-11	SW BOARD	
* 10	3-373-630-01	PLATE, LIGHT GUIDE	
11	3-831-441-XX	SHEET (1)	

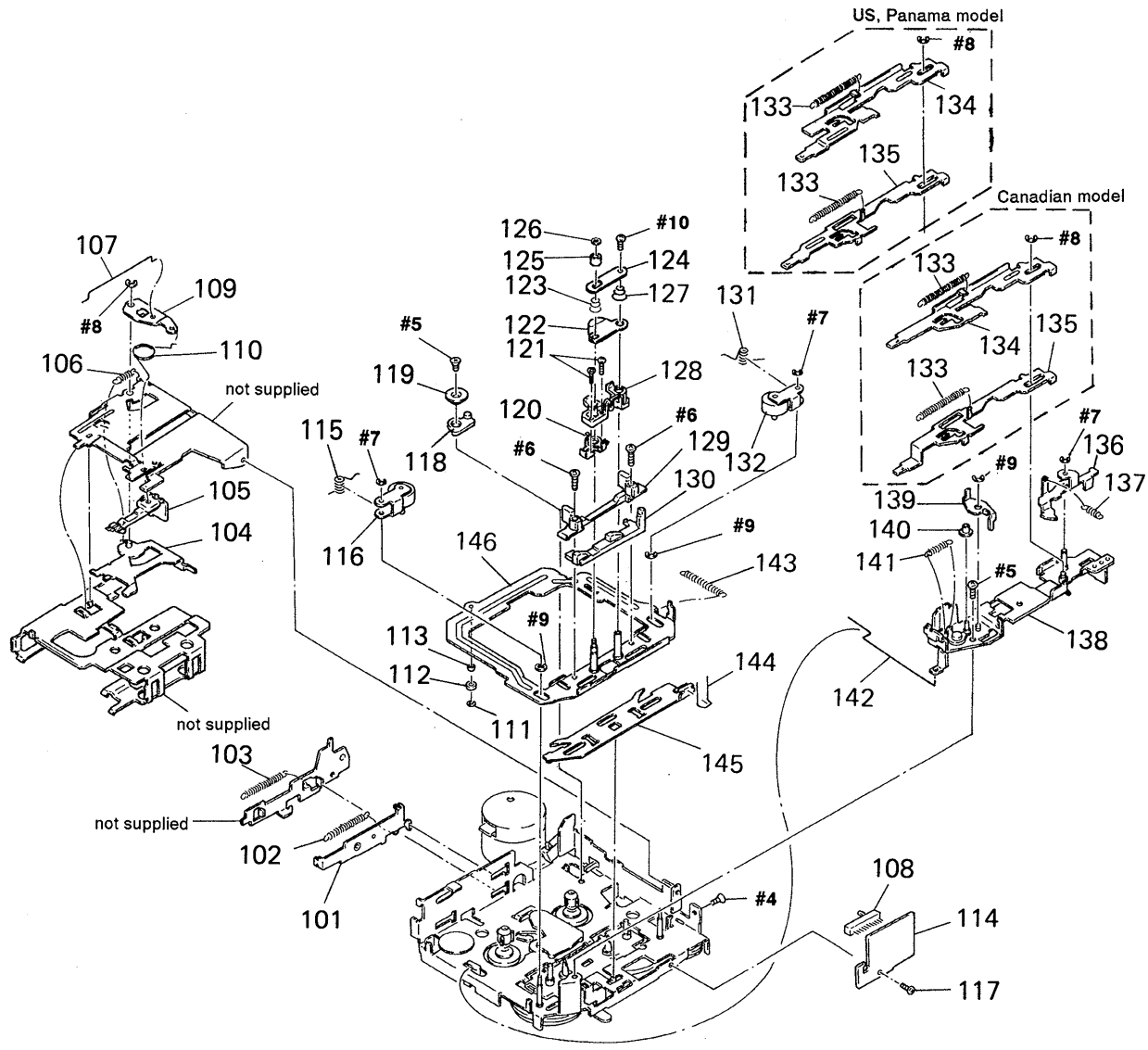
(2)



Ref. No.	Part No.	Description	Remark
51	3-344-501-01	SCREW (+ PTT 3X6), GROUND POINT	
52	3-373-633-01	BUTTON (FF)	
53	3-373-632-01	BUTTON (REW)	
54	3-373-631-01	BUTTON (EJECT)	
55	3-392-429-01	LEVER (EJECT)	
56	3-372-033-11	SCREW (2.6X3), +P	

Ref. No.	Part No.	Description	Remark
* 57	A-3273-702-A	MAIN BOARD, COMPLETE	
* 58	X-3363-800-1	CHASSIS ASSY	
CNJ801	1-690-329-11	CORD (WITH CONNECTOR) F1, F2	
F1	1-532-419-00	FUSE 3.15A	
F2	1-532-360-XX	FUSE 1A	

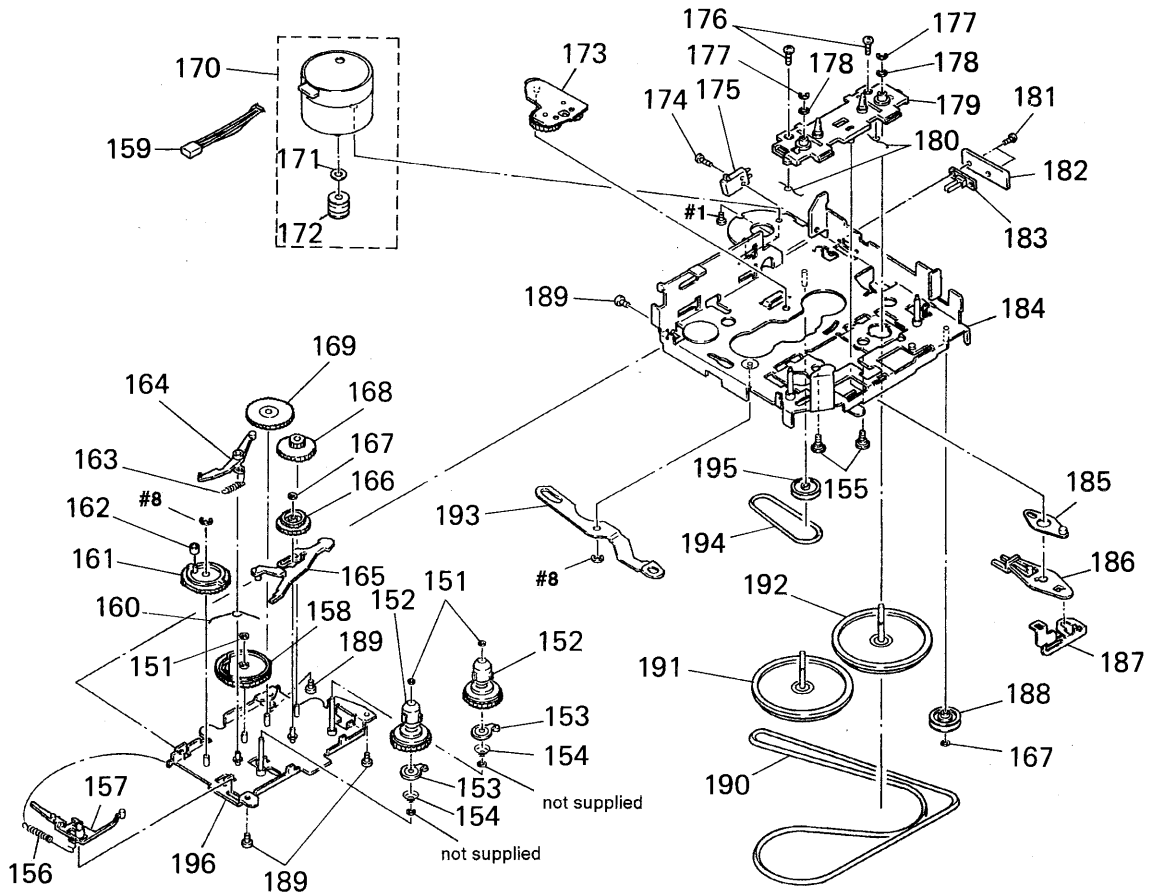
(3)



Ref. No.	Part No.	Description	Remark
* 101	3-392-978-01	LEVER, EJECT	
102	3-392-950-01	SPRING	
103	3-392-951-01	SPRING	
* 104	3-392-921-01	LOCK ASSY, EJECT CAM	
105	3-392-972-01	HOOKER, TAPE	
106	3-392-953-01	SPRING	
107	3-392-969-01	LINK, RETURN	
108	1-692-036-11	SWITCH, SLIDE	
* 109	3-392-932-01	PLATE, CENTER	
110	3-392-961-01	SPRING (B)	
111	3-570-615-00	POLY-WASHER (DIA. 1.2)	
112	3-392-945-01	ROLLER (A), H.P	
113	3-392-942-01	ROLLER (B), H.P	
114	3-392-970-01	CHASSIS, SWITCH	
115	3-392-958-01	SPRING (R)	
116	3-375-378-01	ARM (R) ASSY, PINCH	
118	3-372-244-01	ARM (N), MUTE	
* 119	3-397-427-01	COLLAR, MUTE ARM	
120	3-377-908-01	SHIM (X), ADJUSTOR	
121	3-375-379-01	SCREW, AZIMUTH	
122	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
123	3-392-956-01	SPRING (A)	
* 124	3-392-930-01	RETAINER, SPRING	
125	3-392-943-01	ROLLER, FF	

Ref. No.	Part No.	Description	Remark
126	3-676-387-00	POLY-SLIDER (DIA. 1.6)	
127	3-392-955-01	SPRING (A)	
128	3-377-910-01	ARM (X), ADJUSTOR	
129	3-392-984-01	GUIDE, TAPE	
130	3-377-909-01	LINK (X), ADJUSTOR	
131	3-392-957-01	SPRING (F)	
132	3-375-377-01	ARM (F) ASSY, PINCH	
133	3-392-948-01	SPRING	
* 134	3-392-980-01	LEVER, FF (US)	
* 134	3-392-991-01	LEVER (Z), FF (Canadian)	
* 135	3-392-981-01	LEVER, REW (US)	
* 135	3-392-992-01	LEVER (Z), REW (Canadian)	
* 136	3-392-935-01	ARM, LOCK	
137	3-392-917-01	SPRING	
* 138	3-372-242-01	BRACKET ASSY (D), LEVER	
* 139	3-392-933-01	LEVER (B), CHANGE	
140	3-392-994-01	ROLLER, PROGRAM	
141	3-392-954-01	SPRING	
142	3-372-243-01	LINK (B), SELECTOR	
143	3-392-952-01	SPRING	
144	3-392-962-01	SPRING	
* 145	3-392-919-01	ARM ASSY, F, R SELECTION	
* 146	3-392-975-02	PLATE ASSY, HEAD	

(4)



Ref.No.	Part No.	Description	Remark
151	3-676-387-00	POLY-SLIDER (DIA.1.6)	
152	3-376-196-01	SPINDLE ASSY (S), REEL	
153	3-375-380-01	CAM ASSY, DETECTION	
154	3-370-619-01	SPRING, BACK TENSION	
155	3-392-918-01	SCREW, EJECT HOOK	
156	3-392-959-01	SPRING	
157	3-392-985-02	RATCHET	
158	3-392-990-01	GEAR, DETECTION	
* 159	3-376-195-01	CONNECTOR ASSY (3P)	
160	3-392-960-01	SPRING	
161	3-392-987-01	GEAR, SELECTOR	
162	3-392-944-01	COLLAR (CELECTER GEAR)	
163	3-375-131-01	SPRING, GEAR LOCK ARM	
164	3-392-989-02	ARM, GEAR LOCK	
165	3-392-986-01	ARM, SENSOR	
166	3-392-915-01	GEAR, IDLE	
167	3-570-615-00	POLY-WASHER (DIA.1.2)	
168	3-392-936-01	GEAR (A)	
169	3-392-937-01	GEAR (B)	
170	X-3364-496-1	MOTOR ASSY	
* 171	3-392-912-01	WASHER, MYLAR	
* 172	3-392-913-01	PULLEY, MOTOR	
173	3-392-916-01	ARM ASSY, TU GEAR	

Ref.No.	Part No.	Description	Remark
174	3-318-203-11	SCREW (B1.7X6), TAPPING	
175	1-554-790-11	SWITCH, POWER	
176	3-318-204-81	SCREW (M1.7X3), TAPPING	
177	3-590-768-00	RING (A), E	
178	3-701-437-11	POLY-SLIDER (A)	
* 179	3-375-381-01	BRACKET ASSY (X), CM	
180	3-392-963-01	SPRING (R)	
181	3-318-204-91	SCREW (M1.7X4), TAPPING	
182	3-375-376-01	MUTE (PWB)	
183	1-692-065-11	SWITCH, LEAF	
* 184	3-392-974-01	CHASSIS ASSY, MAIN	
* 185	3-392-925-01	ARM (A) ASSY, F.R	
* 186	3-392-939-01	ARM, FF	
* 187	3-392-934-01	ARM (B), F.R	
188	3-392-941-01	PULLEY (A), IDLE	
189	4-908-792-11	SCREW (B2X3), TAPPING, P1	
190	3-392-967-01	BELT, MAIN	
191	3-392-995-02	FLYWHEEL ASSY (BR)	
192	3-392-926-02	FLYWHEEL ASSY (BF)	
* 193	3-392-979-01	LEVER, REVERSE	
194	3-375-375-01	BELT (C), SUB	
195	3-392-938-01	GEAR, PULLY	
* 196	3-392-976-01	BASE ASSY, REEL	

SECTION 5
ELECTRICAL PARTS LIST

SEE ADDITIONAL INFORMATION

MAIN

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal oxide-film resistor
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA....: μA...., uPA....: μPA....
  uPB....: μPB...., uPC....: μPC....
  uPD....: μPD....
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
*	A-3273-702-A	MAIN BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C2	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C3	1-163-205-00	CERAMIC CHIP	0.001uF	5%	50V
C4	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C7	1-124-589-11	ELECT	47uF	20%	16V
C8	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C9	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C10	1-124-256-00	ELECT	1.5uF	20%	50V
C11	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C12	1-124-465-00	ELECT	0.47uF	20%	50V
C13	1-126-160-11	ELECT	1uF	20%	50V
C14	1-124-589-11	ELECT	47uF	20%	16V
C15	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C16	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C17	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C18	1-126-163-11	ELECT	4.7uF	20%	50V
C19	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C20	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C21	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C22	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C23	1-124-589-11	ELECT	47uF	20%	16V
C24	1-126-160-11	ELECT	1uF	20%	50V
C25	1-124-464-11	ELECT	0.22uF	20%	50V
C26	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C27	1-126-160-11	ELECT	1uF	20%	50V
C28	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V
C29	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V
C30	1-126-160-11	ELECT	1uF	20%	50V
C51	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C52	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C53	1-124-589-11	ELECT	47uF	20%	16V
C54	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C55	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C56	1-163-227-11	CERAMIC CHIP	10PF	5%	50V
C57	1-124-465-00	ELECT	0.47uF	20%	50V
C58	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C59	1-124-589-11	ELECT	47uF	20%	16V
C60	1-126-163-11	ELECT	4.7uF	20%	50V
C61	1-126-160-11	ELECT	1uF	20%	50V
C62	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C63	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C64	1-124-463-00	ELECT	0.1uF	20%	50V
C65	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C66	1-124-902-00	ELECT	0.47uF	20%	50V
C67	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C68	1-126-163-11	ELECT	4.7uF	20%	50V
C69	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C70	1-124-589-11	ELECT	47uF	20%	16V
C71	1-126-162-11	ELECT	3.3uF	20%	50V
C72	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C73	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C74	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C75	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C76	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C77	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C78	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C101	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C102	1-126-160-11	ELECT	1uF	20%	50V
C103	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C104	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C105	1-124-584-00	ELECT	100uF	20%	10V
C106	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C110	1-126-160-11	ELECT	1uF	20%	50V
C121	1-126-163-11	ELECT	4.7uF	20%	50V
C122	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C123	1-126-163-11	ELECT	4.7uF	20%	50V
C124	1-126-163-11	ELECT	4.7uF	20%	50V
C125	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C126	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C127	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
C128	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C191	1-124-584-00	ELECT	100uF	20%	10V
C192	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C201	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C202	1-126-160-11	ELECT	1uF	20%	50V

SEE ADDITIONAL INFORMATION

Ref.No.	Part No.	Description			Remark
C203	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C204	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C205	1-124-584-00	ELECT	100uF	20%	10V
C206	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C210	1-126-160-11	ELECT	1uF	20%	50V
C221	1-126-163-11	ELECT	4.7uF	20%	50V
C222	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C223	1-126-163-11	ELECT	4.7uF	20%	50V
C224	1-126-163-11	ELECT	4.7uF	20%	50V
C225	1-163-055-00	CERAMIC CHIP	0.0047uF	10%	50V
C226	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C227	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
C228	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C291	1-124-584-00	ELECT	100uF	20%	10V
C292	1-124-584-00	ELECT	100uF	20%	10V
C293	1-126-157-11	ELECT	10uF	20%	16V
C351	1-126-163-11	ELECT	4.7uF	20%	50V
C352	1-124-234-00	ELECT	22uF	20%	16V
C353	1-126-157-11	ELECT	10uF	20%	16V
C354	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C355	1-124-584-00	ELECT	100uF	20%	10V
C356	1-124-589-11	ELECT	47uF	20%	16V
C357	1-126-157-11	ELECT	10uF	20%	16V
C358	1-124-556-11	ELECT	2200uF	20%	16V
C360	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C361	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C363	1-101-004-00	CERAMIC	0.01uF		50V
C364	1-124-360-00	ELECT	1000uF	20%	16V
C601	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C602	1-126-160-11	ELECT	1uF	20%	50V
C603	1-124-434-00	ELECT	220uF	20%	4V
C604	1-126-923-11	ELECT	220uF	20%	10V
C605	1-124-473-11	ELECT	1000uF	20%	10V
C606	1-136-165-00	FILM	0.1uF	5%	50V
C651	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C652	1-126-160-11	ELECT	1uF	20%	50V
C653	1-124-434-00	ELECT	220uF	20%	4V
C654	1-126-923-11	ELECT	220uF	20%	10V
C655	1-124-473-11	ELECT	1000uF	20%	10V
C656	1-136-165-00	FILM	0.1uF	5%	50V
C691	1-126-935-11	ELECT	470uF	20%	16V
C692	1-126-101-11	ELECT	100uF	20%	16V
C693	1-163-059-00	CERAMIC CHIP	0.01uF	10%	50V
C705	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C706	1-124-229-00	ELECT	33uF	20%	10V
C707	1-126-916-11	ELECT	1000uF	20%	6.3V
C708	1-163-234-11	CERAMIC CHIP	20PF	5%	50V
C709	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C710	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C711	1-126-163-11	ELECT	4.7uF	20%	50V
C712	1-126-163-11	ELECT	4.7uF	20%	50V
C713	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C714	1-124-589-11	ELECT	47uF	20%	16V
C715	1-124-589-11	ELECT	47uF	20%	16V
C716	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C777	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C779	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C780	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C781	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V

< FILTER >

CF1	1-567-107-00	FILTER, CERAMIC	
CF2	1-567-250-11	OSCILLATOR, CERAMIC	
CF51	1-577-644-11	FILTER, CERAMIC	
CF52	1-527-981-00	FILTER, CERAMIC	

< CONNECTOR >

* CNP101	1-506-985-11	PIN, CONNECTOR (PC BOARD)	3P
* CNP102	1-566-004-11	PIN, CONNECTOR (PC BOARD)	7P
* CNP601	1-564-708-11	PIN, CONNECTOR (SMALL TYPE)	6P
* CNP602	1-564-708-11	PIN, CONNECTOR (SMALL TYPE)	6P
* CNP801	1-580-611-31	PIN, CONNECTOR (PC BOARD)	9P
* CNP901	1-506-985-11	PIN, CONNECTOR (PC BOARD)	3P
CNP902	1-565-209-11	CONNECTOR, FPC (ZIF)	26P

< DIODE >

D1	8-719-110-46	DIODE	RD16ES-B3
D2	8-719-110-46	DIODE	RD16ES-B3
D3	8-719-987-06	DIODE	WG713A
D4	8-719-987-06	DIODE	WG713A
D5	8-719-970-45	DIODE	LTZ-MR15T77
D6	8-719-987-06	DIODE	WG713A
D7	8-719-987-06	DIODE	WG713A
D51	8-719-981-75	DIODE	KV1281-3-2
D54	8-719-987-06	DIODE	WG713A
D55	8-719-987-06	DIODE	WG713A
D56	8-719-987-06	DIODE	WG713A
D57	8-719-987-06	DIODE	WG713A
D101	8-719-987-06	DIODE	WG713A
D201	8-719-987-06	DIODE	WG713A
D351	8-719-109-89	DIODE	RD5.6ES-B2
D352	8-719-987-06	DIODE	WG713A
D353	8-719-987-06	DIODE	WG713A
D354	8-719-987-06	DIODE	WG713A
D355	8-719-987-06	DIODE	WG713A
D356	8-719-987-06	DIODE	WG713A
D357	8-719-987-06	DIODE	WG713A
D358	8-719-987-06	DIODE	WG713A

SEE ADDITIONAL INFORMATION

MAIN

Ref.No.	Part No.	Description				Remark
D359	8-719-110-13	DIODE	RD9.1ES-B2			
D360	8-719-200-82	DIODE	11ES2			
D361	8-719-200-82	DIODE	11ES2			
D362	8-719-200-82	DIODE	11ES2			
D363	8-719-200-82	DIODE	11ES2			
D364	8-719-987-06	DIODE	WG713A			
D399	8-719-987-06	DIODE	WG713A			
D703	8-719-987-06	DIODE	WG713A			
D704	8-719-987-06	DIODE	WG713A			
D705	8-719-109-93	DIODE	RD6.2ES-B2			
D706	8-719-987-06	DIODE	WG713A			
D707	8-719-987-06	DIODE	WG713A			
D708	8-719-987-06	DIODE	WG713A			
D709	8-719-987-06	DIODE	WG713A			
D710	8-719-987-06	DIODE	WG713A			
D711	8-719-987-06	DIODE	WG713A			
D712	8-719-987-06	DIODE	WG713A			
D713	8-719-987-06	DIODE	WG713A			
D714	8-719-987-06	DIODE	WG713A			
D717	8-719-110-17	DIODE	RD10ES-B2			
D718	8-719-109-89	DIODE	RD5.6ES-B2			
		< FRONT END >				
FE1	1-465-919-11	FRONT END				
		< IC >				
IC1	8-759-820-53	IC	LA1145M			
IC2	8-759-821-71	IC	LA3430M-TP-T1			
IC51	8-759-821-96	IC	LA1137NM-TP-T1			
IC101	8-759-046-31	IC	BA328F-T1			
IC401	8-759-909-71	IC	BA4558F			
IC601	8-759-804-75	IC	LA4445			
IC701	8-759-046-30	IC	uPD1708AG-315-00			
		< JACK >				
J1	1-573-995-11	JACK (ANT)				
		< JUMPER >				
JR1	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR2	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR3	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR4	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR6	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR7	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR8	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR9	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR10	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR11	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR12	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR13	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR14	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR15	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR16	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR17	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR18	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR101	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR102	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR103	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR105	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR106	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR107	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR108	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR109	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR110	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR112	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR114	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR115	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR116	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR117	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR118	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR119	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR120	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR121	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR122	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR123	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR124	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR126	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR780	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR781	1-216-296-00	METAL CHIP	0	5%	1/8W	
		< JUMPER WIRE >				
* JW16	1-535-303-00	WIRE, JUMPER				
* JW17	1-535-303-00	WIRE, JUMPER				
* JW18	1-535-303-00	WIRE, JUMPER				
* JW24	1-535-303-00	WIRE, JUMPER				
* JW25	1-535-303-00	WIRE, JUMPER				
* JW26	1-535-303-00	WIRE, JUMPER				
* JW34	1-535-303-00	WIRE, JUMPER				
* JW36	1-535-303-00	WIRE, JUMPER				
* JW37	1-535-303-00	WIRE, JUMPER				
* JW41	1-535-303-00	WIRE, JUMPER				
* JW42	1-535-303-00	WIRE, JUMPER				
* JW45	1-535-303-00	WIRE, JUMPER				
* JW50	1-535-303-00	WIRE, JUMPER				
* JW51	1-535-303-00	WIRE, JUMPER				
* JW70	1-535-303-00	WIRE, JUMPER				

SEE ADDITIONAL INFORMATION

Ref.No.	Part No.	Description	Remark
* JW108	1-535-303-00	WIRE, JUMPER	
* JW780	1-535-303-00	WIRE, JUMPER	
		< COIL >	
L1	1-410-324-11	INDUCTOR 4.7uH	
L2	1-410-501-11	INDUCTOR 2.2uH	
L3	1-410-312-11	INDUCTOR 0.22uH	
L5	1-410-513-11	INDUCTOR 22uH	
L51	1-410-513-11	INDUCTOR 22uH	
L52	1-410-513-11	INDUCTOR 22uH	
L53	1-408-418-00	INDUCTOR 56uH	
		< TRANSISTOR >	
Q1	8-729-902-XX	TRANSISTOR UN2215-QRS(TW)	
Q51	8-729-266-83	TRANSISTOR 2SC2668	
Q52	8-729-853-64	TRANSISTOR 2SC536SP-G	
Q53	8-729-105-74	TRANSISTOR 2SK523-M1	
Q101	8-729-902-XX	TRANSISTOR UN2215-QRS(TW)	
Q102	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q201	8-729-902-XX	TRANSISTOR UN2215-QRS(TW)	
Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q352	8-729-424-59	TRANSISTOR UN2212-TW	
Q353	8-729-216-22	TRANSISTOR 2SA1162	
Q354	8-729-209-15	TRANSISTOR 2SD2012	
Q355	8-729-424-59	TRANSISTOR UN2212-TW	
Q356	8-729-205-02	TRANSISTOR 2SA1150	
Q358	8-729-424-49	TRANSISTOR UN211F-TW	
Q359	8-729-424-59	TRANSISTOR UN2212-TW	
Q360	8-729-205-02	TRANSISTOR 2SA1150	
Q601	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q651	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q705	8-729-012-33	TRANSISTOR 2SC4040-TL2-QR	
Q706	8-729-100-67	TRANSISTOR 2SC1623-L7	
Q707	8-729-100-67	TRANSISTOR 2SC1623-L7	
Q708	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		< RESISTOR >	
R1	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R2	1-216-150-00	METAL GLAZE 10 5% 1/8W	
R3	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R4	1-216-037-00	METAL CHIP 330 5% 1/10W	
R5	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R6	1-216-079-00	METAL CHIP 18K 5% 1/10W	
R7	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R8	1-216-068-00	METAL CHIP 6.2K 5% 1/10W	
R9	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R10	1-216-222-00	METAL GLAZE 10K 5% 1/8W	

Ref.No.	Part No.	Description	Remark
R11	1-216-071-00	METAL CHIP 8.2K 5% 1/10W	
R12	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R13	1-249-428-11	CARBON 8.2K 5% 1/4W	
R14	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R15	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R16	1-216-091-00	METAL CHIP 56K 5% 1/10W	
R17	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R18	1-216-150-00	METAL GLAZE 10 5% 1/8W	
R19	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R20	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R21	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R22	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R23	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R24	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R25	1-249-438-11	CARBON 56K 5% 1/4W	
R26	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R27	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R28	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R29	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R30	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R31	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R51	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R52	1-216-043-00	METAL CHIP 560 5% 1/10W	
R53	1-216-121-00	METAL CHIP 1M 5% 1/10W	
R54	1-216-022-00	METAL CHIP 75 5% 1/10W	
R55	1-216-041-00	METAL CHIP 470 5% 1/10W	
R56	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R57	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R58	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R59	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R60	1-216-064-00	METAL CHIP 4.3K 5% 1/10W	
R61	1-216-021-00	METAL CHIP 68 5% 1/10W	
R62	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R63	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R64	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R65	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R66	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R67	1-216-111-00	METAL CHIP 390K 5% 1/10W	
R68	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R69	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R101	1-216-015-00	METAL CHIP 39 5% 1/10W	
R102	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R103	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R104	1-216-051-00	METAL CHIP 1.2K 5% 1/10W	
R106	1-216-234-00	METAL GLAZE 33K 5% 1/8W	
R107	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R108	1-216-109-00	METAL CHIP 330K 5% 1/10W	
R112	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R113	1-216-097-00	METAL CHIP 100K 5% 1/10W	

SEE ADDITIONAL INFORMATION

MAIN

Ref.No.	Part No.	Description			Remark
R119	1-216-748-11	METAL CHIP	39K	1%	1/10W
R121	1-216-244-00	METAL GLAZE	82K	5%	1/8W
R122	1-216-097-00	METAL CHIP	100K	5%	1/10W
R123	1-216-097-00	METAL CHIP	100K	5%	1/10W
R124	1-216-041-00	METAL CHIP	470	5%	1/10W
R125	1-216-049-00	METAL CHIP	1K	5%	1/10W
R126	1-216-077-00	METAL CHIP	15K	5%	1/10W
R127	1-216-091-00	METAL CHIP	56K	5%	1/10W
R128	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R194	1-216-158-00	METAL GLAZE	22	5%	1/8W
R201	1-216-015-00	METAL CHIP	39	5%	1/10W
R202	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R203	1-216-097-00	METAL CHIP	100K	5%	1/10W
R204	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R206	1-216-085-00	METAL CHIP	33K	5%	1/10W
R207	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R208	1-216-109-00	METAL CHIP	330K	5%	1/10W
R212	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R213	1-216-097-00	METAL CHIP	100K	5%	1/10W
R219	1-216-748-11	METAL CHIP	39K	1%	1/10W
R221	1-216-095-00	METAL CHIP	82K	5%	1/10W
R222	1-216-097-00	METAL CHIP	100K	5%	1/10W
R223	1-216-097-00	METAL CHIP	100K	5%	1/10W
R224	1-216-041-00	METAL CHIP	470	5%	1/10W
R225	1-216-049-00	METAL CHIP	1K	5%	1/10W
R226	1-216-077-00	METAL CHIP	15K	5%	1/10W
R227	1-216-091-00	METAL CHIP	56K	5%	1/10W
R228	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R292	1-216-081-00	METAL CHIP	22K	5%	1/10W
R352	1-216-234-00	METAL GLAZE	33K	5%	1/8W
R353	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R354	1-249-407-11	CARBON	150	5%	1/4W
R355	1-216-077-00	METAL CHIP	15K	5%	1/10W
R356	1-249-426-11	CARBON	5.6K	5%	1/4W
R357	1-216-049-00	METAL CHIP	1K	5%	1/10W
R358	1-216-089-00	METAL CHIP	47K	5%	1/10W
R359	1-216-091-00	METAL CHIP	56K	5%	1/10W
R360	1-216-049-00	METAL CHIP	1K	5%	1/10W
R361	1-247-778-00	CARBON	6.2	5%	1/4W
R362	1-247-778-00	CARBON	6.2	5%	1/4W
R363	1-216-081-00	METAL CHIP	22K	5%	1/10W
R366	1-260-151-11	CARBON	20	5%	1/2W
R367	1-249-393-11	CARBON	10	5%	1/4W
R368	1-216-105-00	METAL CHIP	220K	5%	1/10W
R369	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R370	1-249-409-11	CARBON	220	5%	1/4W
R371	1-249-409-11	CARBON	220	5%	1/4W
R491	1-216-009-00	METAL CHIP	22	5%	1/10W
R601	1-249-423-11	CARBON	3.3K	5%	1/4W
R602	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R603	1-216-025-00	METAL CHIP	100	5%	1/10W
R604	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R605	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R606	1-216-748-11	METAL CHIP	39K	1%	1/10W
R651	1-249-423-11	CARBON	3.3K	5%	1/4W
R652	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R653	1-216-025-00	METAL CHIP	100	5%	1/10W
R654	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R655	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R656	1-216-748-11	METAL CHIP	39K	1%	1/10W
R706	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R707	1-249-428-11	CARBON	8.2K	5%	1/4W
R708	1-216-748-11	METAL CHIP	39K	1%	1/10W
R710	1-249-437-11	CARBON	47K	5%	1/4W
R711	1-249-437-11	CARBON	47K	5%	1/4W
R712	1-249-437-11	CARBON	47K	5%	1/4W
R713	1-249-437-11	CARBON	47K	5%	1/4W
R714	1-249-437-11	CARBON	47K	5%	1/4W
R715	1-216-073-00	METAL CHIP	10K	5%	1/10W
R716	1-216-049-00	METAL CHIP	1K	5%	1/10W
R717	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R718	1-216-121-00	METAL CHIP	1M	5%	1/10W
R719	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R720	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R721	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R722	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R730	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R731	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R732	1-216-089-00	METAL CHIP	47K	5%	1/10W
R733	1-216-238-00	METAL GLAZE	47K	5%	1/8W

< VARIABLE RESISTOR >

RV1	1-238-601-11	RES, ADJ, CARBON 22K
RV51	1-238-602-11	RES, ADJ, CARBON 47K
RV401	1-241-679-11	RES, VAR, CERMET CARBON (VOLUME/FADER/PUSH/TREBLE/PULL BASS)
RV402	1-241-680-11	RES, VAR, CARBON 100K (SW) (TUNING/BALANCE/PUSH SEEK/PULL DISPLAY)

< TRANSFORMER >

T1	1-404-856-21	COIL, DISCRIMINATOR
T51	1-402-552-11	COIL (ANT)
T52	1-426-547-11	COIL (RF)
T53	1-426-548-21	COIL (RF)
T54	1-406-379-11	COIL (OSC)
T55	1-404-958-11	TRANSFORMER, IF
T56	1-404-959-11	TRANSFORMER, IF

SEE ADDITIONAL INFORMATION

MAIN SWITCH

Ref.No.	Part No.	Description	Remark
		< CRYSTAL >	
X701	1-567-713-11	VIBRATOR, CRYSTAL (4.50MHz)	
**********			
*	1-641-238-11	SW BOARD	
		********	
*	3-373-630-01	PLATE, LIGHT GUIDE	
		< CONNECTOR >	
* CNP903	1-691-638-11	HOUSING, CONNECTOR 26P	
		< DIODE >	
D801	8-719-025-98	LED SEL6914A-TP5	
D802	8-719-025-98	LED SEL6914A-TP5	
D803	8-719-025-98	LED SEL6914A-TP5	
D804	8-719-025-98	LED SEL6914A-TP5	
		< JUMPER >	
JR801	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR802	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR803	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR804	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR805	1-216-295-00	METAL CHIP 0 5% 1/10W	
		< DISPLAY PANEL >	
LCD801	1-809-532-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< PILOT LAMP >	
PL801	1-518-615-21	LAMP, PILOT (FUNCTION/DISPLAY)	
PL802	1-518-615-21	LAMP, PILOT (FUNCTION/DISPLAY)	
		< RESISTOR >	
R801	1-216-176-00	METAL GLAZE 120 5% 1/8W	
R802	1-216-176-00	METAL GLAZE 120 5% 1/8W	
		< SWITCH >	
S801	1-572-704-21	SWITCH, KEY BOARD (1)	
S802	1-572-704-21	SWITCH, KEY BOARD (2)	
S803	1-572-704-21	SWITCH, KEY BOARD (3)	
S804	1-572-704-21	SWITCH, KEY BOARD (4)	
S805	1-572-704-21	SWITCH, KEY BOARD (5)	
S806	1-572-704-21	SWITCH, KEY BOARD (6)	
S807	1-572-704-21	SWITCH, KEY BOARD (MONO)	
S808	1-572-704-21	SWITCH, KEY BOARD (MTL/LCL)	
S809	1-572-704-21	SWITCH, KEY BOARD (FM/AM)	
**********			

Ref.No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
7	1-690-687-11	WIRE, FLAT TYPE 26P	
8	1-535-667-41	WIRE (FLAT TYPE) (9 CORE)	
108	1-535-667-41	SWITCH, SLIDE	
122	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
175	1-554-790-11	SWITCH, POWER	
183	1-692-065-11	SWITCH, LEAF	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	X-3363-799-1	KNOB (A) ASSY	
	X-3391-202-1	SCREW ASSY, FITTING	
CNJ801	1-690-329-11	CORD (WITH CONNECTOR)	
F1	1-532-360-XX	FUSE 1A	
F2	1-532-419-00	FUSE 3.15A	
	3-310-655-11	SUPPORT (ND), FITTING	
	3-373-625-01	KNOB (B)	
	3-373-626-01	PLATE, TRIM	
*	3-373-629-01	LABEL, MODEL NUMBER (U)(US, Panama)	
*	3-373-634-01	LABEL, MODEL NUMBER (CA)(Canadian)	
*	3-375-630-01	INDIVIDUAL CARTON	
*	3-375-632-01	CUSHION (UPPER)	
*	3-375-633-01	CUSHION (LOWER)	
	3-754-224-21	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (US, Canadian)	
	3-754-224-41	MANUAL, INSTRUCTION (SPANISH)(PANAMA)	
	3-754-225-21	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (US, Canadian)	
	3-754-225-41	MANUAL, INSTRUCTION (SPANISH)(PANAMA)	
**********			

HARDWARE LIST

****

#1	7-621-770-67	SCREW +PTT 2.6X6 (S)
#2	7-621-773-86	SCREW +PTT 2.6X4 (S)
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#4	7-621-255-15	SCREW +P 2X3
#5	7-621-255-25	SCREW +P 2X4
#6	7-627-553-88	SCREW, PRECISION +P 2X7
#7	7-624-102-04	STOP RING 1.5, TYPE-E
#8	7-624-104-04	STOP RING 2.0, TYPE-E
#9	7-624-118-01	RING, RETAINING E-2.5
#10	7-627-553-48	SCREW, PRECISION +P 2X4

9-956-751-12

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Mobile Electronics Group

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SONY

SERVICE MANUAL

US Model
Canadian Model

SUPPLEMENT-1

File this Supplement with the Service Manual.

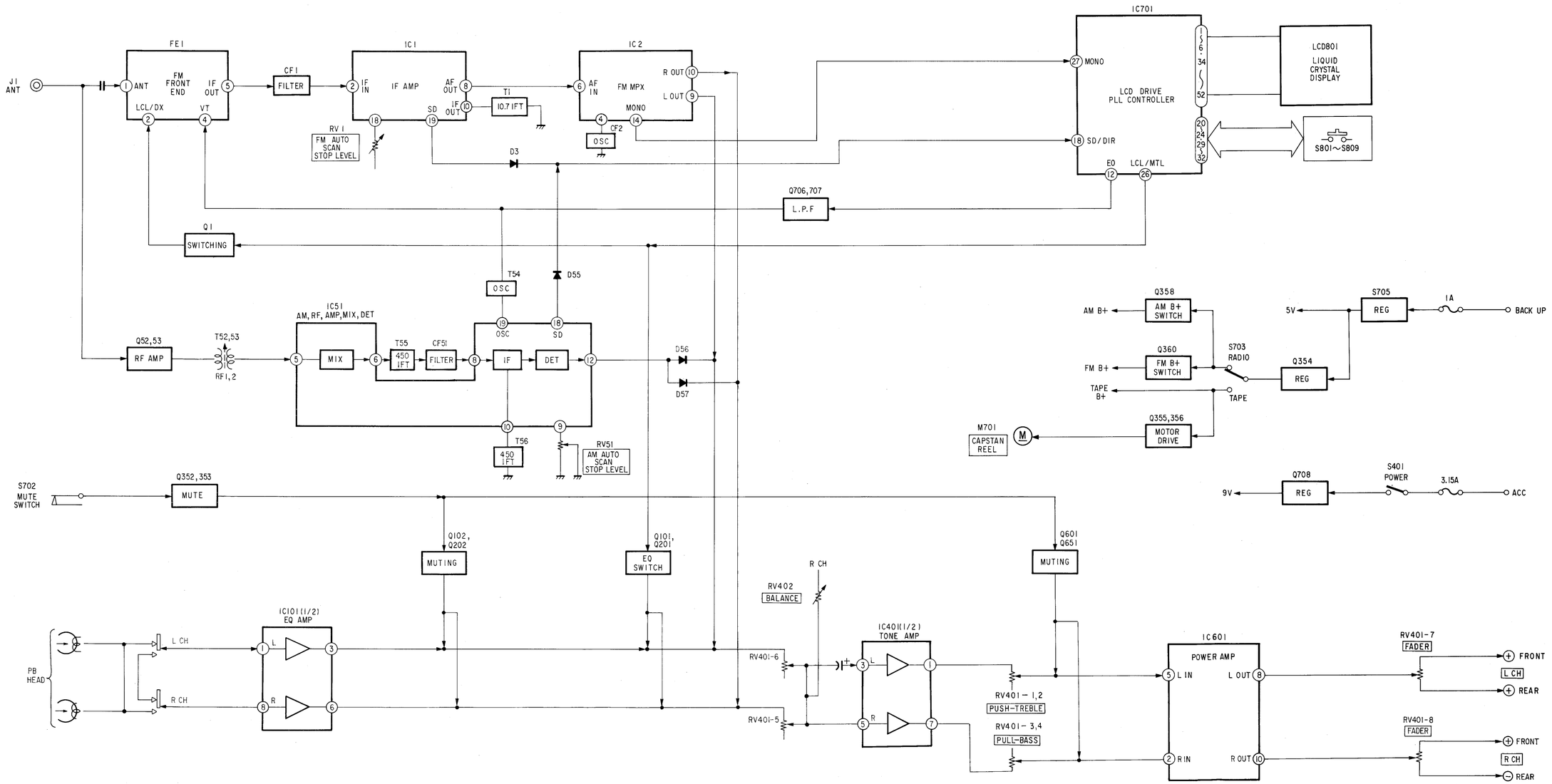
Subject:

1. Addition of block diagram and change of printed wiring boards and schematic diagram.

2. ELECTRICAL PARTS LIST

DIAGRAMS

1. BLOCK DIAGRAM



• SEMICONDUCTORS LEAD LAYOUT

UN211F
UN2212
UN2215-QRS
2SA1162
2SC1623-L7

2SK523-M1

2SA1150

LTZ-MR15
RD16ESB3
RD5.6ESB2
RD6.2ESB2
RD9.1ESB2
WG713
11ES2

2SC2668
2SC536SP-G

KV1281-3-2

2SC2673

RD10ESB2

2SD2012

● SEMICONDUCTOR LOCATION

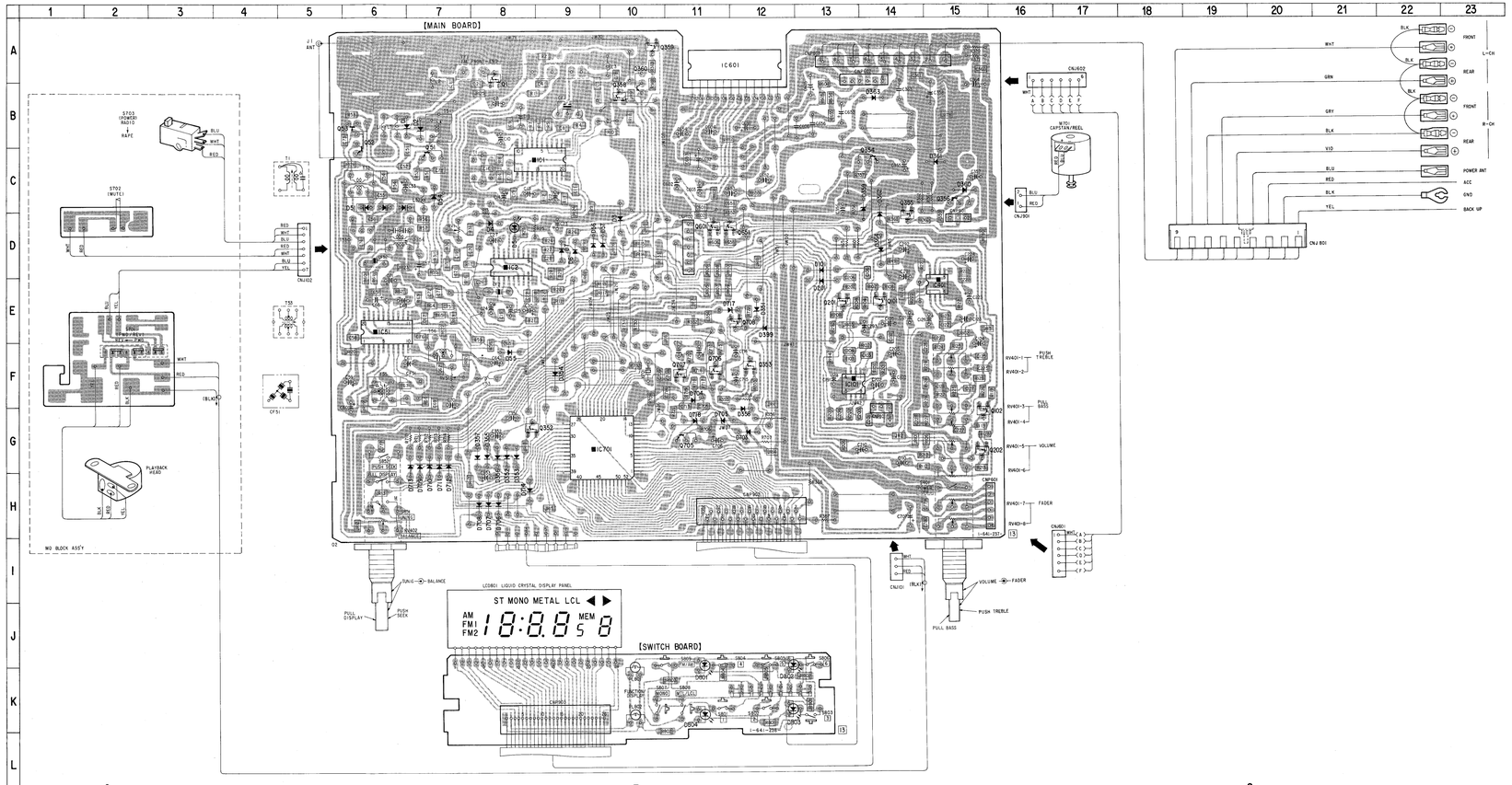
Ref. No.	Location	Ref. No.	Location
D1	B – 6	D801	J – 11
D2	B – 7	D802	J – 12
D3	D – 10	D803	K – 12
D4	D – 8	D804	K – 11
D5	D – 8		
D6	D – 9	IC1	C – 9
D7	D – 9	IC2	D – 8
D51	C – 6	IC51	E – 6
D54	C – 7	IC101	F – 13
D55	F – 8	IC401	E – 15
D56	D – 9	IC601	A – 12
D57	D – 10	IC701	G – 10
D101	D – 13		
D201	E – 13		
D351	E – 12	Q1	A – 8
		Q51	C – 7
D352	G – 8	Q52	B – 6
D353	G – 8	Q53	B – 6
D354	F – 9	Q101	E – 14
D355	G – 8		
D356	G – 8	Q102	G – 15
		Q201	E – 13
D357	G – 8	Q202	G – 15
D358	G – 12	Q352	G – 8
D359	C – 14	Q353	F – 12
D360	C – 15		
D361	C – 15	Q354	C – 14
		Q355	C – 14
D362	C – 14	Q356	C – 15
D363	B – 14	Q358	B – 10
D364	D – 14	Q359	A – 10
D399	E – 12		
D703	G – 12	Q360	A – 10
		Q601	D – 11
D704	F – 11	Q651	D – 11
D705	G – 11	Q705	G – 11
D706	H – 8	Q706	F – 11
D707	H – 8		
D708	H – 8	Q707	F – 11
		Q708	E – 12
D709	G – 7		
D710	G – 7		
D711	G – 7		
D712	G – 7		
D713	G – 7		
D714	H – 8		
D717	E – 11		
D718	G – 11		

Note:

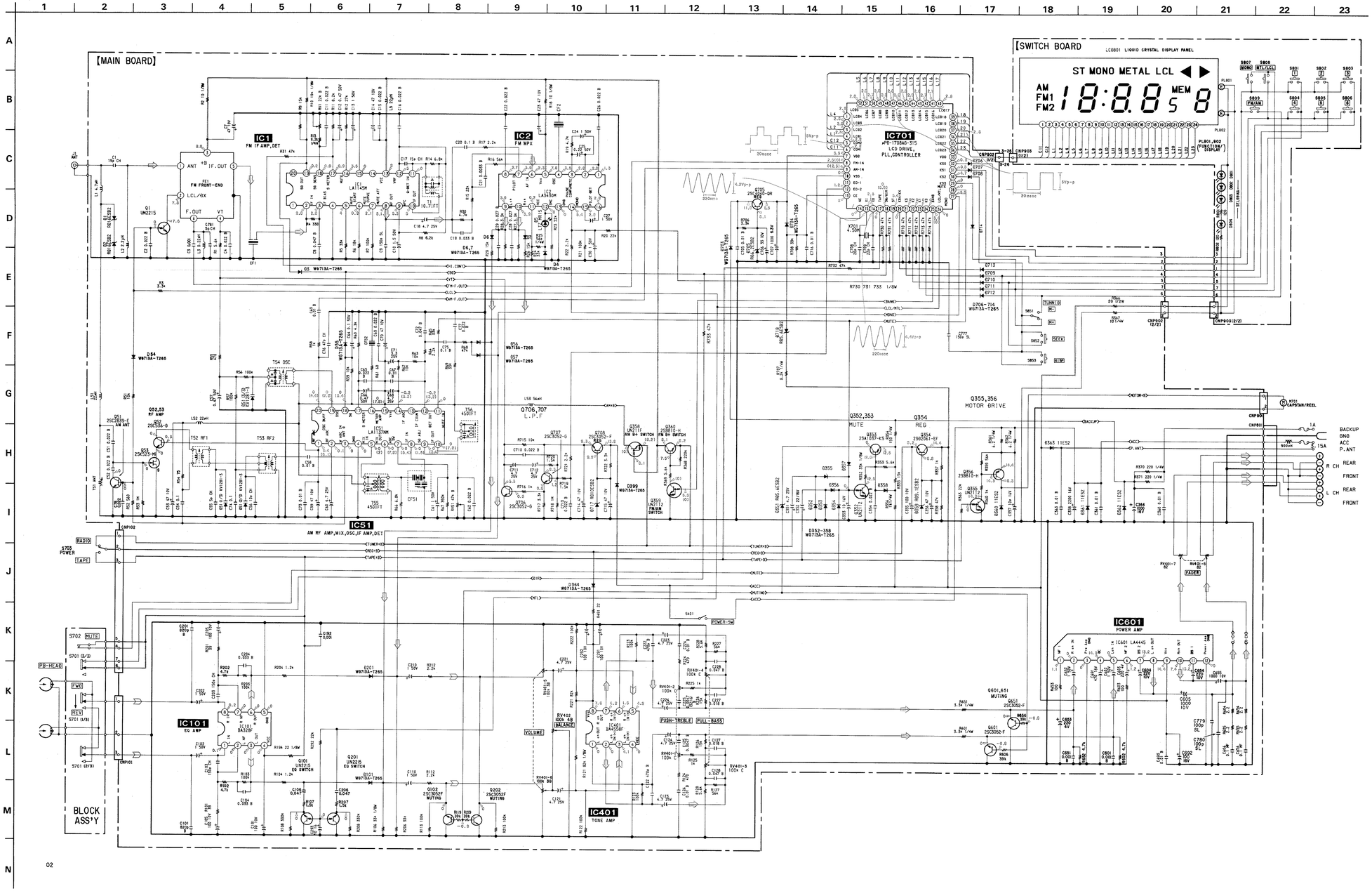
- ○— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ▨ : Pattern on the side which is seen.

2. PRINTED WIRING BOARDS

US model : Serial No.114,501 and later
Canadian model : Serial No.A117,801 and later



US model : Serial No.114,501 and later
Canadian model : Serial No.A117,801 and later



Note:

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- : B + Line
- : adjustment for repair.
- Total current is measured with no cassette installed.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : FM
  ( ) : AM
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM ⇨ : PB

4. ELECTRICAL PARTS LIST

MAIN

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE: Metal oxide-film resistor
  F : nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example:
  uA.... : μA...., uPA.... : μPA....
  uPB.... : μPB...., uPC.... : μPC....
  uPD.... : μPD....
- CAPACITORS
  uF : μF
- COILS
  uH : μH

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
*	A-3273-702-A	MAIN BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C2	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C3	1-163-205-00	CERAMIC CHIP	0.001uF	5%	50V
C4	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C7	1-124-589-11	ELECT	47uF	20%	16V
C8	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C9	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C10	1-124-256-00	ELECT	1.5uF	20%	50V
C11	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C12	1-124-465-00	ELECT	0.47uF	20%	50V
C13	1-126-160-11	ELECT	1uF	20%	50V
C14	1-124-589-11	ELECT	47uF	20%	16V
C15	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C16	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C17	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C18	1-126-163-11	ELECT	4.7uF	20%	50V
C19	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C20	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C21	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C22	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C23	1-124-589-11	ELECT	47uF	20%	16V
C24	1-126-160-11	ELECT	1uF	20%	50V
C25	1-124-464-11	ELECT	0.22uF	20%	50V
C26	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C27	1-126-160-11	ELECT	1uF	20%	50V
C28	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V
C29	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V
C30	1-126-160-11	ELECT	1uF	20%	50V
C51	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C52	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C53	1-124-589-11	ELECT	47uF	20%	16V
C54	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C55	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C56	1-163-227-11	CERAMIC CHIP	10PF	5%	50V
C57	1-124-465-00	ELECT	0.47uF	20%	50V

Ref.No.	Part No.	Description			Remark
C58	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C59	1-124-589-11	ELECT	47uF	20%	16V
C60	1-126-163-11	ELECT	4.7uF	20%	50V
C61	1-126-160-11	ELECT	1uF	20%	50V
C62	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C63	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C64	1-124-463-00	ELECT	0.1uF	20%	50V
C65	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C66	1-124-902-00	ELECT	0.47uF	20%	50V
C67	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C68	1-126-163-11	ELECT	4.7uF	20%	50V
C69	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C70	1-124-589-11	ELECT	47uF	20%	16V
C71	1-126-162-11	ELECT	3.3uF	20%	50V
C72	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C73	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C74	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C75	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C76	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C77	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C78	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C101	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C102	1-126-160-11	ELECT	1uF	20%	50V
C103	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C104	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C105	1-124-584-00	ELECT	100uF	20%	10V
C106	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C110	1-126-160-11	ELECT	1uF	20%	50V
C121	1-126-163-11	ELECT	4.7uF	20%	50V
C122	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C123	1-126-163-11	ELECT	4.7uF	20%	50V
C124	1-126-163-11	ELECT	4.7uF	20%	50V
C125	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C126	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C127	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
C128	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C191	1-124-584-00	ELECT	100uF	20%	10V
C192	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C201	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C202	1-126-160-11	ELECT	1uF	20%	50V

MAIN

Ref.No.	Part No.	Description			Remark
C203	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C204	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C205	1-124-584-00	ELECT	100uF	20%	10V
C206	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C210	1-126-160-11	ELECT	1uF	20%	50V
C221	1-126-163-11	ELECT	4.7uF	20%	50V
C222	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C223	1-126-163-11	ELECT	4.7uF	20%	50V
C224	1-126-163-11	ELECT	4.7uF	20%	50V
C225	1-163-055-00	CERAMIC CHIP	0.0047uF	10%	50V
C226	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C227	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
C228	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C291	1-124-584-00	ELECT	100uF	20%	10V
C292	1-124-584-00	ELECT	100uF	20%	10V
C293	1-126-157-11	ELECT	10uF	20%	16V
C351	1-126-163-11	ELECT	4.7uF	20%	50V
C352	1-124-234-00	ELECT	22uF	20%	16V
C353	1-126-157-11	ELECT	10uF	20%	16V
C354	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C355	1-124-584-00	ELECT	100uF	20%	10V
C356	1-124-589-11	ELECT	47uF	20%	16V
C357	1-126-157-11	ELECT	10uF	20%	16V
C358	1-124-556-11	ELECT	2200uF	20%	16V
C360	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C361	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C363	1-101-004-00	CERAMIC	0.01uF		50V
C364	1-124-360-00	ELECT	1000uF	20%	16V
C601	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C602	1-126-160-11	ELECT	1uF	20%	50V
C603	1-124-434-00	ELECT	220uF	20%	4V
C604	1-126-923-11	ELECT	220uF	20%	10V
C605	1-124-473-11	ELECT	1000uF	20%	10V
C606	1-136-165-00	FILM	0.1uF	5%	50V
C651	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C652	1-126-160-11	ELECT	1uF	20%	50V
C653	1-124-434-00	ELECT	220uF	20%	4V
C654	1-126-923-11	ELECT	220uF	20%	10V
C655	1-124-473-11	ELECT	1000uF	20%	10V
C656	1-136-165-00	FILM	0.1uF	5%	50V
C691	1-126-935-11	ELECT	470uF	20%	16V
C692	1-126-101-11	ELECT	100uF	20%	16V
C693	1-163-059-00	CERAMIC CHIP	0.01uF	10%	50V
C705	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C706	1-124-229-00	ELECT	33uF	20%	10V
C707	1-126-916-11	ELECT	1000uF	20%	6.3V
C708	1-163-234-11	CERAMIC CHIP	20PF	5%	50V
C709	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C710	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V

Ref.No.	Part No.	Description			Remark
C711	1-126-163-11	ELECT	4.7uF	20%	50V
C712	1-126-163-11	ELECT	4.7uF	20%	50V
C713	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C714	1-124-589-11	ELECT	47uF	20%	16V
C715	1-124-589-11	ELECT	47uF	20%	16V
C716	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C777	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C779	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C780	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C781	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V

< FILTER >

CF1	1-567-107-00	FILTER, CERAMIC
CF2	1-567-250-11	OSCILLATOR, CERAMIC
CF51	1-577-644-11	FILTER, CERAMIC
CF52	1-527-981-00	FILTER, CERAMIC

< CONNECTOR >

* CNP101	1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P
* CNP102	1-566-004-11	PIN, CONNECTOR (PC BOARD) 7P
* CNP601	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P
* CNP602	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P
* CNP801	1-580-611-31	PIN, CONNECTOR (PC BOARD) 9P
* CNP901	1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P
CNP902	1-565-209-11	CONNECTOR, FPC (ZIF) 26P

< DIODE >

D1	8-719-110-46	DIODE	RD16ES-B3
D2	8-719-110-46	DIODE	RD16ES-B3
D3	8-719-987-06	DIODE	WG713A
D4	8-719-987-06	DIODE	WG713A
D5	8-719-970-45	DIODE	LTZ-MR15T77
D6	8-719-987-06	DIODE	WG713A
D7	8-719-987-06	DIODE	WG713A
D51	8-719-981-75	DIODE	KV1281-3-2
D54	8-719-987-06	DIODE	WG713A
D55	8-719-987-06	DIODE	WG713A
D56	8-719-987-06	DIODE	WG713A
D57	8-719-987-06	DIODE	WG713A
D101	8-719-987-06	DIODE	WG713A
D201	8-719-987-06	DIODE	WG713A
D351	8-719-109-89	DIODE	RD5.6ES-B2
D352	8-719-987-06	DIODE	WG713A
D353	8-719-987-06	DIODE	WG713A
D354	8-719-987-06	DIODE	WG713A
D355	8-719-987-06	DIODE	WG713A
D356	8-719-987-06	DIODE	WG713A
D357	8-719-987-06	DIODE	WG713A
D358	8-719-987-06	DIODE	WG713A

MAIN

Ref.No.	Part No.	Description	Remark
D359	8-719-110-13	DIODE RD9.1ES-B2	
D360	8-719-200-82	DIODE 11ES2	
D361	8-719-200-82	DIODE 11ES2	
D362	8-719-200-82	DIODE 11ES2	
D363	8-719-200-82	DIODE 11ES2	
D364	8-719-987-06	DIODE WG713A	
D399	8-719-987-06	DIODE WG713A	
D703	8-719-987-06	DIODE WG713A	
D704	8-719-987-06	DIODE WG713A	
D705	8-719-109-93	DIODE RD6.2ES-B2	
D706	8-719-987-06	DIODE WG713A	
D707	8-719-987-06	DIODE WG713A	
D708	8-719-987-06	DIODE WG713A	
D709	8-719-987-06	DIODE WG713A	
D710	8-719-987-06	DIODE WG713A	
D711	8-719-987-06	DIODE WG713A	
D712	8-719-987-06	DIODE WG713A	
D713	8-719-987-06	DIODE WG713A	
D714	8-719-987-06	DIODE WG713A	
D717	8-719-110-17	DIODE RD10ES-B2	
D718	8-719-109-89	DIODE RD5.6ES-B2	
		< FRONT END >	
FE1	1-465-919-11	FRONT END	
		< IC >	
IC1	8-759-820-53	IC LA1145M	
IC2	8-759-821-71	IC LA3430M-TP-T1	
IC51	8-759-821-96	IC LA1137NM-TP-T1	
IC101	8-759-046-31	IC BA328F-T1	
IC401	8-759-909-71	IC BA4558F	
IC601	8-759-804-75	IC LA4445	
IC701	8-759-046-30	IC uPD1708AG-315-00	
		< JACK >	
J1	1-573-995-11	JACK (ANT)	
		< JUMPER >	
JR1	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR2	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR3	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR4	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR6	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR7	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR8	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR9	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR10	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR11	1-216-295-00	METAL CHIP 0 5% 1/10W	

Ref.No.	Part No.	Description	Remark
JR12	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR13	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR14	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR15	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR16	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR17	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR18	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR101	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR102	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR103	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR105	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR106	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR107	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR108	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR109	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR110	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR112	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR114	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR115	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR116	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR117	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR118	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR119	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR120	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR121	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR122	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR123	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR124	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR126	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR780	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR781	1-216-296-00	METAL CHIP 0 5% 1/8W	
		< JUMPER WIRE >	
* JW16	1-535-303-00	WIRE, JUMPER	
* JW17	1-535-303-00	WIRE, JUMPER	
* JW18	1-535-303-00	WIRE, JUMPER	
* JW24	1-535-303-00	WIRE, JUMPER	
* JW25	1-535-303-00	WIRE, JUMPER	
* JW26	1-535-303-00	WIRE, JUMPER	
* JW34	1-535-303-00	WIRE, JUMPER	
* JW36	1-535-303-00	WIRE, JUMPER	
* JW37	1-535-303-00	WIRE, JUMPER	
* JW41	1-535-303-00	WIRE, JUMPER	
* JW42	1-535-303-00	WIRE, JUMPER	
* JW45	1-535-303-00	WIRE, JUMPER	
* JW50	1-535-303-00	WIRE, JUMPER	
* JW51	1-535-303-00	WIRE, JUMPER	
* JW70	1-535-303-00	WIRE, JUMPER	

MAIN

Ref.No.	Part No.	Description				Remark
* JW108	1-535-303-00	WIRE, JUMPER				
* JW780	1-535-303-00	WIRE, JUMPER				
		< COIL >				
L1	1-410-324-11	INDUCTOR	4.7uH			
L2	1-410-501-11	INDUCTOR	2.2uH			
L3	1-410-312-11	INDUCTOR	0.22uH			
L5	1-410-513-11	INDUCTOR	22uH			
L51	1-410-513-11	INDUCTOR	22uH			
L52	1-410-513-11	INDUCTOR	22uH			
L53	1-408-418-00	INDUCTOR	56uH			
		< TRANSISTOR >				
Q1	8-729-902-XX	TRANSISTOR	UN2215-QRS(TW)			
Q51	8-729-266-83	TRANSISTOR	2SC2668			
Q52	8-729-853-64	TRANSISTOR	2SC536SP-G			
Q53	8-729-105-74	TRANSISTOR	2SK523-M1			
Q101	8-729-902-XX	TRANSISTOR	UN2215-QRS(TW)			
Q102	8-729-120-28	TRANSISTOR	2SC1623-L5L6			
Q201	8-729-902-XX	TRANSISTOR	UN2215-QRS(TW)			
Q202	8-729-120-28	TRANSISTOR	2SC1623-L5L6			
Q352	8-729-424-59	TRANSISTOR	UN2212-TW			
Q353	8-729-216-22	TRANSISTOR	2SA1162			
Q354	8-729-209-15	TRANSISTOR	2SD2012			
Q355	8-729-424-59	TRANSISTOR	UN2212-TW			
Q356	8-729-205-02	TRANSISTOR	2SA1150			
Q358	8-729-424-49	TRANSISTOR	UN211F-TW			
Q359	8-729-424-59	TRANSISTOR	UN2212-TW			
Q360	8-729-205-02	TRANSISTOR	2SA1150			
Q601	8-729-120-28	TRANSISTOR	2SC1623-L5L6			
Q651	8-729-120-28	TRANSISTOR	2SC1623-L5L6			
Q705	8-729-012-33	TRANSISTOR	2SC4040-TL2-QR			
Q706	8-729-100-67	TRANSISTOR	2SC1623-L7			
Q707	8-729-100-67	TRANSISTOR	2SC1623-L7			
Q708	8-729-120-28	TRANSISTOR	2SC1623-L5L6			
		< RESISTOR >				
R1	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R2	1-216-150-00	METAL GLAZE	10	5%	1/8W	
R3	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R4	1-216-037-00	METAL CHIP	330	5%	1/10W	
R5	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R6	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R7	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R8	1-216-068-00	METAL CHIP	6.2K	5%	1/10W	
R9	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R10	1-216-222-00	METAL GLAZE	10K	5%	1/8W	

Ref.No.	Part No.	Description				Remark
R11	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R12	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R13	1-249-428-11	CARBON	8.2K	5%	1/4W	
R14	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R15	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R16	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R17	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R18	1-216-150-00	METAL GLAZE	10	5%	1/8W	
R19	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R20	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R21	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R22	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R23	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R24	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R25	1-249-438-11	CARBON	56K	5%	1/4W	
R26	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R27	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R28	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R29	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R30	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R31	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R51	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R52	1-216-043-00	METAL CHIP	560	5%	1/10W	
R53	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R54	1-216-022-00	METAL CHIP	75	5%	1/10W	
R55	1-216-041-00	METAL CHIP	470	5%	1/10W	
R56	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R57	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R58	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R59	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R60	1-216-064-00	METAL CHIP	4.3K	5%	1/10W	
R61	1-216-021-00	METAL CHIP	68	5%	1/10W	
R62	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R63	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R64	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R65	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R66	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R67	1-216-111-00	METAL CHIP	390K	5%	1/10W	
R68	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R69	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R101	1-216-015-00	METAL CHIP	39	5%	1/10W	
R102	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R103	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R104	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R106	1-216-234-00	METAL GLAZE	33K	5%	1/8W	
R107	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R108	1-216-109-00	METAL CHIP	330K	5%	1/10W	
R112	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R113	1-216-097-00	METAL CHIP	100K	5%	1/10W	

Ref.No.	Part No.	Description			Remark
R119	1-216-748-11	METAL CHIP	39K	1%	1/10W
R121	1-216-244-00	METAL GLAZE	82K	5%	1/8W
R122	1-216-097-00	METAL CHIP	100K	5%	1/10W
R123	1-216-097-00	METAL CHIP	100K	5%	1/10W
R124	1-216-041-00	METAL CHIP	470	5%	1/10W
R125	1-216-049-00	METAL CHIP	1K	5%	1/10W
R126	1-216-077-00	METAL CHIP	15K	5%	1/10W
R127	1-216-091-00	METAL CHIP	56K	5%	1/10W
R128	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R194	1-216-158-00	METAL GLAZE	22	5%	1/8W
R201	1-216-015-00	METAL CHIP	39	5%	1/10W
R202	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R203	1-216-097-00	METAL CHIP	100K	5%	1/10W
R204	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R206	1-216-085-00	METAL CHIP	33K	5%	1/10W
R207	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R208	1-216-109-00	METAL CHIP	330K	5%	1/10W
R212	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R213	1-216-097-00	METAL CHIP	100K	5%	1/10W
R219	1-216-748-11	METAL CHIP	39K	1%	1/10W
R221	1-216-095-00	METAL CHIP	82K	5%	1/10W
R222	1-216-097-00	METAL CHIP	100K	5%	1/10W
R223	1-216-097-00	METAL CHIP	100K	5%	1/10W
R224	1-216-041-00	METAL CHIP	470	5%	1/10W
R225	1-216-049-00	METAL CHIP	1K	5%	1/10W
R226	1-216-077-00	METAL CHIP	15K	5%	1/10W
R227	1-216-091-00	METAL CHIP	56K	5%	1/10W
R228	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R292	1-216-081-00	METAL CHIP	22K	5%	1/10W
R352	1-216-234-00	METAL GLAZE	33K	5%	1/8W
R353	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R354	1-249-407-11	CARBON	150	5%	1/4W
R355	1-216-077-00	METAL CHIP	15K	5%	1/10W
R356	1-249-426-11	CARBON	5.6K	5%	1/4W
R357	1-216-049-00	METAL CHIP	1K	5%	1/10W
R358	1-216-089-00	METAL CHIP	47K	5%	1/10W
R359	1-216-091-00	METAL CHIP	56K	5%	1/10W
R360	1-216-049-00	METAL CHIP	1K	5%	1/10W
R361	1-247-778-00	CARBON	6.2	5%	1/4W
R362	1-247-778-00	CARBON	6.2	5%	1/4W
R363	1-216-081-00	METAL CHIP	22K	5%	1/10W
R366	1-260-151-11	CARBON	20	5%	1/2W
R367	1-249-393-11	CARBON	10	5%	1/4W
R368	1-216-105-00	METAL CHIP	220K	5%	1/10W
R369	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R370	1-249-409-11	CARBON	220	5%	1/4W
R371	1-249-409-11	CARBON	220	5%	1/4W
R491	1-216-009-00	METAL CHIP	22	5%	1/10W
R601	1-249-423-11	CARBON	3.3K	5%	1/4W
R602	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R603	1-216-025-00	METAL CHIP	100	5%	1/10W
R604	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R605	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R606	1-216-748-11	METAL CHIP	39K	1%	1/10W
R651	1-249-423-11	CARBON	3.3K	5%	1/4W
R652	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R653	1-216-025-00	METAL CHIP	100	5%	1/10W
R654	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R655	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R656	1-216-748-11	METAL CHIP	39K	1%	1/10W
R706	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R707	1-249-428-11	CARBON	8.2K	5%	1/4W
R708	1-216-748-11	METAL CHIP	39K	1%	1/10W
R710	1-249-437-11	CARBON	47K	5%	1/4W
R711	1-249-437-11	CARBON	47K	5%	1/4W
R712	1-249-437-11	CARBON	47K	5%	1/4W
R713	1-249-437-11	CARBON	47K	5%	1/4W
R714	1-249-437-11	CARBON	47K	5%	1/4W
R715	1-216-073-00	METAL CHIP	10K	5%	1/10W
R716	1-216-049-00	METAL CHIP	1K	5%	1/10W
R717	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R718	1-216-121-00	METAL CHIP	1M	5%	1/10W
R719	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R720	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R721	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R722	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R730	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R731	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R732	1-216-089-00	METAL CHIP	47K	5%	1/10W
R733	1-216-238-00	METAL GLAZE	47K	5%	1/8W

< VARIABLE RESISTOR >

RV1	1-238-601-11	RES, ADJ, CARBON 22K
RV51	1-238-602-11	RES, ADJ, CARBON 47K
RV401	1-241-679-11	RES, VAR, CERMET CARBON (VOLUME/FADER/PUSH/TREBLE/PULL BASS)
RV402	1-241-680-11	RES, VAR, CARBON 100K (SW) (TUNING/BALANCE/PUSH SEEK/PULL DISPLAY)

< TRANSFORMER >

T1	1-404-856-21	COIL, DISCRIMINATOR
T51	1-402-552-11	COIL (ANT)
T52	1-426-547-11	COIL (RF)
T53	1-426-548-21	COIL (RF)
T54	1-406-379-11	COIL (OSC)
T55	1-404-958-11	TRANSFORMER, IF
T56	1-404-959-11	TRANSFORMER, IF

MAIN SW

Ref.No.	Part No.	Description	Remark
		< CRYSTAL >	
X701	1-567-713-11	VIBRATOR, CRYSTAL (4.50MHz)	
**********			
*	1-641-238-11	SW BOARD	
		********	
*	3-373-630-01	PLATE, LIGHT GUIDE	
		< CONNECTOR >	
* CNP903	1-691-638-11	HOUSING, CONNECTOR 26P	
		< DIODE >	
D801	8-719-025-98	LED SEL6914A-TP5	
D802	8-719-025-98	LED SEL6914A-TP5	
D803	8-719-025-98	LED SEL6914A-TP5	
D804	8-719-025-98	LED SEL6914A-TP5	
		< JUMPER >	
JR801	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR802	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR803	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR804	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR805	1-216-295-00	METAL CHIP 0 5% 1/10W	
		< DISPLAY PANEL >	
LCD801	1-809-532-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< PILOT LAMP >	
PL801	1-518-615-21	LAMP, PILOT (FUNCTION/DISPLAY)	
PL802	1-518-615-21	LAMP, PILOT (FUNCTION/DISPLAY)	
		< RESISTOR >	
R801	1-216-176-00	METAL GLAZE 120 5% 1/8W	
R802	1-216-176-00	METAL GLAZE 120 5% 1/8W	
		< SWITCH >	
S801	1-572-704-21	SWITCH, KEY BOARD (1)	
S802	1-572-704-21	SWITCH, KEY BOARD (2)	
S803	1-572-704-21	SWITCH, KEY BOARD (3)	
S804	1-572-704-21	SWITCH, KEY BOARD (4)	
S805	1-572-704-21	SWITCH, KEY BOARD (5)	
S806	1-572-704-21	SWITCH, KEY BOARD (6)	
S807	1-572-704-21	SWITCH, KEY BOARD (MONO)	
S808	1-572-704-21	SWITCH, KEY BOARD (MTL/LCL)	
S809	1-572-704-21	SWITCH, KEY BOARD (FM/AM)	
**********			

Ref.No.	Part No.	Description	Remark
		MISCELLANEOUS	
		************	
7	1-690-687-11	WIRE, FLAT TYPE 26P	
8	1-535-667-41	WIRE (FLAT TYPE) (9 CORE)	
108	1-535-667-41	SWITCH, SLIDE	
122	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
175	1-554-790-11	SWITCH, POWER	
183	1-692-065-11	SWITCH, LEAF	
**********			
		ACCESSORIES & PACKING MATERIALS	
		******************************	
	X-3363-799-1	KNOB (A) ASSY	
	X-3391-202-1	SCREW ASSY, FITTING	
CNJ801	1-690-329-11	CORD (WITH CONNECTOR)	
F1	1-532-360-XX	FUSE 1A	
F2	1-532-419-00	FUSE 3.15A	
	3-310-655-11	SUPPORT (ND), FITTING	
	3-373-625-01	KNOB (B)	
	3-373-626-01	PLATE, TRIM	
*	3-373-629-01	LABEL, MODEL NUMBER (U)(US)	
*	3-373-634-01	LABEL, MODEL NUMBER (CA)(Canadian)	
*	3-375-630-01	INDIVIDUAL CARTON	
*	3-375-632-01	CUSHION (UPPER)	
*	3-375-633-01	CUSHION (LOWER)	
	3-754-224-21	MANUAL, INSTRUCTION (ENGLISH, FRENCH)	
	3-754-225-21	MANUAL, INSTRUCTION (ENGLISH, FRENCH)	
**********			

HARDWARE LIST

****

#1	7-621-770-67	SCREW +PTT 2.6X6 (S)
#2	7-621-773-86	SCREW +PTT 2.6X4 (S)
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#4	7-621-255-15	SCREW +P 2X3
#5	7-621-255-25	SCREW +P 2X4
#6	7-627-553-88	SCREW, PRECISION +P 2X7
#7	7-624-102-04	STOP RING 1.5, TYPE-E
#8	7-624-104-04	STOP RING 2.0, TYPE-E
#9	7-624-118-01	RING, RETAINING E-2.5
#10	7-627-553-48	SCREW, PRECISION +P 2X4

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